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		Attorney Docket Number	-	W. Hayes							
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Fee Transmittal Form  Fee Attached  Amendment/Reply  After Final  Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Document(s)  Response to Missing Parts/ Incomplete Application  Response to Missing Parts under 37 CFR 1.52 or 1.53		Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addi Terminal Disclaimer Request for Refund CD, Number of CD(s)	ress	After Allowance communication to Technology Center (TC)  Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  Proprietary Information  Status Letter Other Enclosure(s) (please Identify below):							
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Firm or Individual name  Signature  David C. Jenkins Eckert Seamans Cherin & January 4, 2005	Mellott, L	TC									
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Typed or printed name  David C. Jenkins											
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#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Examiner: John W. Hayes

Group Art Unit: 3621

METHODS AND SYSTEMS FOR

**ELECTRONIC AGENCY IN** 

In re Application of: **GANESH MANI** 

PERFORMANCE OF SERVICES

Serial No. 09/662,958

Filed: September 15, 2000

Attorney Docket No. 284355-00003-1

#### APPELLANT'S BRIEF ON APPEAL

January 4, 2005

Commissioner for Patents MAIL STOP APPEAL BRIEF - PATENTS P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

This is an Appeal from the decision of the Examiner, dated September 17, 2004, rejecting Claims 1-70 and 90-93 of the above-identified application. The claims are set forth in Appendix 1, which is attached hereto. Due to the specific nature of the issues involved in this Appeal, an Oral Hearing is not deemed necessary and is not requested.

#### **Real Party In Interest**

The real party in interest is Ganesh Mani.

#### **Related Appeals and Interferences**

There are no other appeals or interferences known to Appellant or to Appellant's legal representative which will directly affect, be directly affected by, or have a bearing on the Board's decision in the pending appeal.

#### **Status of the Claims**

Claims 1-70 and 90-93 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Walker et al.* (U.S. Patent No. 5,862,223) in view of *Lloyd* (U.S. Patent No. 4,876,648).

Claims 71-89 have been canceled.

#### **Status of the Amendments**

There are currently no amendments to the pending claims. The claims as they stand on Appeal are contained in the Appendix 1 to this Brief.

#### Summary of the Claimed Subject Matter

The present invention provides a method for a principal to electronically locate an agent, give the agent a power of attorney, pay the agent, and for an agent to perform a service requested by a principal 114. *See* Fig. 1 and page 3, lines 13-15.

This invention further provides a computer implemented method for a principal to electronically establish and use an agent. The method includes the following steps: the principal identifying a service requirement 102, the principal submitting an electronic request for service 106, negotiating terms by principal and agent 108, establishing an electronic power of attorney, the agent performing said requested service 114, and, the principal paying said agent. *See* Fig. 1 and page 3, lines 17-22.

This invention further provides a computer readable medium containing instructions for performing a method for a principal to electronically establish and use an agent. The method includes the following steps: the principal identifying a service requirement 102, the principal submitting an electronic request for service 106, negotiating terms by principal and agent 108, establishing an electronic power of attorney, the agent performing said requested service 114, and, the principal paying said agent. *See* Fig. 1 and page 3, lines 24-30.

This invention further provides a computer system containing instructions for performing a method for a principal to electronically establish and use an agent. The method includes the following steps: the principal identifying a service requirement 102, the principal submitting an electronic request for service 106, negotiating terms by principal and agent 108, establishing an electronic power of attorney, the agent

performing said requested service 114, and, the principal paying said agent. *See* Fig. 1 and page 4, lines 1-6.

#### Grounds of Rejection to be Reviewed on Appeal

Claims 1-70 and 90-93 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Walker et al.* (U.S. Patent No. 5,862,223) in view of *Lloyd* (U.S. Patent No. 4,876,648).

#### Argument

Claims 1-70 and 90-93; Rejected under 35 U.S.C. § 103(a).

Claims 1-70 and 90-93 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Walker et al.* (U.S. Patent No. 5,862,223) in view of *Lloyd* (U.S. Patent No. 4,876,648). As previously noted by the Examiner, *Walker* does not disclose the use of an electronic power of attorney between a principal and an agent. Appellant further notes that *Walker* fails to even suggest such a power of attorney between a principal and an agent. The Examiner notes that *Lloyd* discloses a power of attorney in both the Abstract and at Col. 7, L. 64 – Col. 8, L. 6 and Col. 8 L. 16-28.

Initially, Appellant notes that the *Lloyd* Abstract reads in full:

A computerized mortgage implementing system includes a central service computer, which helps establish and maintain mortgage plans based upon mortgages at least partially collateralized by investment vehicles. Both a plurality of groups of investment vehicle information and mortgage information are stored in the service computer. Borrower information is entered in the service computer when a mortgage plan is to be established. An individual one of the groups of investment information is selected. A desired amount of the investment funding is determined for helping repay a mortgage plan. Mortgage implementing information is generated for a given mortgage plan, and is sent to a mortgage lender computer to facilitate the establishment of the mortgage plan.

Thus, the Abstract fails to mention a power of attorney or any other type of agency relationship. Appellant further notes that the sentence describing how the notice in the sentence cited by the Examiner, states that, "Thirty days prior to the date, the program sends a notice of the option and then choices that are available to the

borrower **by registered mail**." *Lloyd* at Col. 7, L. 60-62 (Emphasis added). That is, *Lloyd* discloses the use of a traditional pen-and-paper power of attorney form. This non-electronic form is, apparently, converted to an electronic form so it may be included as an attachment to an electronic notice, Col. 8, L. 16-28, but the power of attorney is not established as an electronic document. Thus, *Lloyd* fails to disclose an "electronic power of attorney" as asserted by the Examiner.

Moreover, as stated in, *In re Geiger*, 815 F.2d 686, 2 U.S.P.Q.2d 1276 (Fed. Cir. 1987), "obviousness cannot be established by combining teachings of the prior art to produce the claimed invention, *absent some teaching, suggestion, or incentive* supporting combination" (emphasis added) (attached as Appendix 2). Put another way, "the mere fact that disclosures or teachings of the prior art can be retrospectively combined for the purpose of evaluating obviousness/nonobviousness issue does not make the combination set forth in the invention obvious, unless the art also suggested the desirability of the combination ...." *Rite-Hite Corp. v Kelly Co.*, 629 F.Supp. 1042, 231 U.S.P.Q. 161, (attached as Appendix 3) aff'd 819 F.2d 1120, 2 U.S.P.Q.2d 1915 (E.D. Wis. 1986) (emphasis added). Similarly, the court in, *In re Vaeck*, 947 F.2d 488, 20 U.S.P.Q.2d 1438 (Fed. Cir. 1991), stated that "both the suggestion [to make the claimed apparatus] and the reasonable expectation of success must be found in the prior art, not in the Appellants' disclosure" (attached as Appendix 4). Here, there is no suggestion that the cited references should be combined.

Accordingly, neither *Walker* nor *Lloyd* disclose the use of an electronic power of attorney as claimed in the present application. Moreover, even if one of the references did disclose the use of an electronic power of attorney, there is no "teaching, suggestion, or incentive" supporting a combination of the references as relied upon by the Examiner. As such, the rejection of claims 1, 33, and 52 under 35 U.S.C. §103(a) as being unpatentable over *Walker et al.* in view of *Lloyd* should be reversed. Claims 1, 33, and 52 are all of the independent claims of the present application. The remaining claims rely on their dependency for patentability as well as the fact that, for the reasons identified above, the references cannot be combined to be used as the basis for rejecting each of the dependent claims under 35 U.S.C. §103(a).

#### **Conclusion**

It is submitted that Claims 1-70 and 90-93 are patentable over the prior art. Therefore, it is requested that the Board reverse the Examiner's rejections of Claims 1-70 and 90-93 and remand the application to the Examiner for the issuance of a Notice of Allowance.

Respectfully submitted,

David C. Jenkins

Registration No. 42,691

Eckert Seamans Cherin & Mellott, LLC

600 Grant Street, 44th Floor

Pittsburgh, PA 15219

Attorney for Appellant

(412) 566-1253

#### **APPENDIX 1**

- 1. A computer implemented method for a principal to electronically establish and use an agent, said method comprising the steps of:
  - (a) said principal identifying a service requirement;
  - (b) said principal submitting an electronic request for service;
  - (c) negotiating terms by principal and agent;
  - (d) establishing an electronic power of attorney; and
- (e) using an electronic device to verify said agent is performing said requested service. .
- 2. The method of claim 1, wherein said step of submitting a request for service includes the steps of:
  - (a) identifying the service requested;
- (b) providing a database having information relating to available agents; and
- (c) connecting an agent able to perform said requested service with said principal.
- 3. The method of claim 2, wherein said submitting a request for service further includes the steps of:
- (a) said principal identifying terms and conditions relating to the performance of said requested service; and
  - (b) transmitting said terms and conditions to available agents.
- 4. The method of claim 3, wherein said negotiating step includes the steps of:
  - (a) establishing constraints on the performance of said agent.
  - 5. The method of claim 4, wherein said constraint is a soft constraint.
  - 6. The method of claim 4, wherein said constraint is a hard constraint.

- 7. The method of claim 4, wherein said step of establishing an electronic power of attorney includes the steps of:
  - (a) generating a power of attorney document; and
  - (b) electronically signing said power of attorney document.
- 8. The method of claim 7, wherein said step of establishing an electronic power of attorney further includes the steps of:
  - (a) electronically verifying said electronic signature; and
- (b) providing an electronic key that allows said agent to access selected information about said principal electronically.
- 9. The method of claim 8, wherein said electronic verification is performed by an asymmetric cryptosystem.
- 10. The method of claim 8, wherein said electronic verification is performed by a biometric method.
- 11. The method of claim 8, wherein said selected information about said principal is stored in an information database and said step of agent performing said requested service includes the steps of:
  - (a) said agent accessing said principal information database;
- (b) said agent interacting with third parties to perform said requested service; and
- (c) said agent reporting completion of said requested service to said principal.
- 12. The method of claim 11, wherein said third parties can electronically verify the status of said agent.
- 13. The method of claim 11, wherein said step of using an electronic device to verify said agent is performing said requested service includes the steps of:
- (a) said agent updating said information database with a status report; and

- (b) said principal accessing said information database.
- 14. The method of claim 11, wherein said step of using an electronic device to verify said agency is performing said requested service includes the steps of:
  - (a) said agent generating a status report; and
  - (b) said agent delivering said report to said principal.
- 15. The method of claim 11, wherein said step of using an electronic device to verify said agent is performing said requested service includes the step of:
  - (a) said principal terminating said power of attorney.
- 16. The method of claim 11, wherein said step of using an electronic device to verify said agent is performing said requested service includes the step of:
- (a) terminating said power of attorney upon said agent violating said terms and conditions or said constraints.
- 17. The method of claim 91, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
- (a) said principal paying a web site provider for an allotment of agent time;
- (b) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and
- (c) said web site provider paying said agent for said requested service.
- 18. The method of claim 91, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
  - (a) paying said agent a fixed fee;
- (b) said principal paying a web site provider for an allotment of agent time; and
- (c) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and

- (d) said web site provider paying said agent for said requested service.
- 19. The method of claim 91, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
  - (a) paying said agent an hourly basis;
- (b) said principal paying a web site provider for an allotment of agent time;
- (c) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and
- (d) said web site provider paying said agent for said requested service.
- 20. The method of claim 1, wherein said step of establishing an electronic power of attorney includes the steps of:
  - (a) generating a power of attorney document; and
  - (b) electronically signing said power of attorney document.
- 21. The method of claim 20, wherein said step of establishing an electronic power of attorney further includes the steps of:
  - (a) electronically verifying said electronic signature; and
- (b) providing an electronic key that allows said agent to access selected information about said principal electronically.
- 22. The method of claim 21, wherein said electronic verification is performed by an asymmetric cryptosystem.
- 23. The method of claim 21, wherein said electronic verification is performed by a biometric method.
- 24. The method of claim 1, wherein said selected information about said principal is stored in an information database and said step of agent performing said requested service includes the steps of:

- (a) said agent accessing said principal information database;
- (b) said agent interacting with third parties to perform said requested service; and
- (c) said agent reporting completion of said requested service to said principal.
- 25. The method of claim 24, wherein said third parties can electronically verify the status of said agent.
- 26. The method of claim 24, wherein said step of using an electronic device to verify said agent is performing said requested service includes the steps of:
- (a) said agent updating said information database with a status report; and
  - (b) said principal accessing said information database.
- 27. The method of claim 24, wherein said step of using an electronic device to verify said agent is performing said requested service includes the steps of:
  - (a) said agent generating a status report; and
  - (b) said agent delivering said report to said principal.
- 28. The method of claim 24, wherein said step of using an electronic device to verify said agent is performing said requested service includes the step of:
  - (a) said principal terminating said power of attorney.
- 29. The method of claim 24, wherein said step of using an electronic device to verify said agent is performing said requested service includes the step of:
- (a) terminating said power of attorney upon said agent violating said terms and conditions or said constraints.
- 30. The method of claim 90, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
- (a) said principal paying a web site provider for an allotment of agent time;

- (b) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and
- (c) said web site provider paying said agent for said requested service.
- 31. The method of claim 90, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
  - (a) paying said agent a fixed fee;
- (b) said principal paying a web site provider for an allotment of agent time; and
- (c) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and
- (d) said web site provider paying said agent for said requested service.
- 32. The method of claim 90, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
  - (a) paying said agent an hourly basis;
- (b) said principal paying a web site provider for an allotment of agent time;
- (c) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and
- (d) said web site provider paying said agent for said requested service.
- 33. A computer readable medium containing instructions for performing a method for a principal to electronically establish and use an agent, said method comprising the steps of:
  - (a) said principal identifying a service requirement;
  - (b) said principal submitting an electronic request for service;
  - (c) negotiating terms by principal and agent;
  - (d) establishing an electronic power of attorney;

- (e) using an electronic device to verify said agent is performing said requested service.
- 34. The computer readable medium of claim 33, wherein said step of submitting a request for service includes the steps of:
  - (a) identifying the service requested;
- (b) providing a database having information relating to available agents; and
- (c) connecting an agent able to perform said requested service with said principal.
- 35. The computer readable medium of claim 34, wherein said submitting a request for service further includes the steps of:
- (a) said principal identifying terms and conditions relating to the performance of said requested service; and
  - (b) transmitting said terms and conditions to available agents.
- 36. The computer readable medium of claim 35, wherein said negotiating step includes the steps of:
  - (a) establishing constraints on the performance of said agent.
- 37. The computer readable medium of claim 36, wherein said constraint is a soft constraint.
- 38. The computer readable medium of claim 36, wherein said constraint is a hard constraint.
- 39. The computer readable medium of claim 33, wherein said step of establishing an electronic power of attorney includes the steps of:
  - (a) generating a power of attorney document; and
  - (b) electronically signing said power of attorney document.

- 40. The computer readable medium of claim 39, wherein said step of establishing an electronic power of attorney further includes the steps of:
  - (a) electronically verifying said electronic signature; and
- (b) providing an electronic key that allows said agent to access selected information about said principal electronically.
- 41. The computer readable medium of claim 40, wherein said electronic verification is performed by an asymmetric cryptosystem.
- 42. The computer readable medium of claim 40, wherein said electronic verification is performed by a biometric method.
- 43. The computer readable medium of claim 33, wherein said selected information about said principal is stored in an information database and said step of agent performing said requested service includes the steps of:
  - (a) said agent accessing said principal information database;
- (b) said agent interacting with third parties to perform said requested service; and
- (c) said agent reporting completion of said requested service to said principal.
- 44. The computer readable medium of claim 43, wherein said third parties can electronically verify the status of said agent.
- 45. The computer readable medium of claim 43, wherein said step of using an electronic device to verify said agent is performing said requested service includes the steps of:
- (a) said agent updating said information database with a status report; and
  - (b) said principal accessing said information database.

- 46. The computer readable medium of claim 43, wherein said step of using an electronic device to verify said agent is performing said requested service includes the steps of:
  - (a) said agent generating a status report; and
  - (b) said agent delivering said report to said principal.
- 47. The computer readable medium of claim 43, wherein said step of using an electronic device to verify said agent is performing said requested service includes the step of:
  - (a) said principal terminating said power of attorney.
- 48. The computer readable medium of claim 43, wherein said step of using an electronic device to verify said agent is performing said requested service includes the step of:
- (a) terminating said power of attorney upon said agent violating said terms and conditions or said constraints.
- 49. The computer readable medium of claim 92, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
- (a) said principal paying a web site provider for an allotment of agent time;
- (b) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and
- (c) said web site provider paying said agent for said requested service.
- 50. The computer readable medium of claim 92, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
  - (a) paying said agent a fixed fee;
- (b) said principal paying a web site provider for an allotment of agent time; and
- (c) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and

- (d) said web site provider paying said agent for said requested service.
- 51. The computer readable medium of claim 92, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
  - (a) paying said agent an hourly basis;
- (b) said principal paying a web site provider for an allotment of agent time;
- (c) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and
- (d) said web site provider paying said agent for said requested service.
- 52. A computer system having a computer readable medium containing instructions for performing a method for a principal to electronically establish and use an agent, said method comprising the steps of:
  - (a) said principal identifying a service requirement;
  - (b) said principal submitting an electronic request for service;
  - (c) negotiating terms by principal and agent;
  - (d) establishing an electronic power of attorney;
- (e) using an electronic device to verify said agent is performing said requested service.
- 53. The computer system of claim 52, wherein said step of submitting a request for service includes the steps of:
  - (a) identifying the service requested;
- (b) providing a database having information relating to available agents; and
- (c) connecting an agent able to perform said requested service with said principal.
- 54. The computer system of claim 53, wherein said submitting a request for service further includes the steps of:

- (a) said principal identifying terms and conditions relating to the performance of said requested service; and
  - (b) transmitting said terms and conditions to available agents.
- 55. The computer system of claim 54, wherein said negotiating step includes the steps of:
  - (a) establishing constraints on the performance of said agent.
- 56. The computer system of claim 55, wherein said constraint is a soft constraint.
- 57. The computer system of claim 55, wherein said constraint is a hard constraint.
- 58. The computer system of claim 52, wherein said step of establishing an electronic power of attorney includes the steps of:
  - (a) generating a power of attorney document; and
  - (b) electronically signing said power of attorney document.
- 59. The computer system of claim 58, wherein said step of establishing an electronic power of attorney further includes the steps of:
  - (a) electronically verifying said electronic signature; and
- (b) providing an electronic key that allows said agent to access selected information about said principal electronically.
- 60. The computer system of claim 59, wherein said electronic verification is performed by an asymmetric cryptosystem.
- 61. The computer system of claim 59, wherein said electronic verification is performed by a biometric method.

- 62. The computer system of claim 52, wherein said selected information about said principal is stored in an information database and said step of agent performing said requested service includes the steps of:
  - (a) said agent accessing said principal information database;
- (b) said agent interacting with third parties to perform said requested service; and
- (c) said agent reporting completion of said requested service to said principal.
- 63. The computer system of claim 62, wherein said third parties can electronically verify the status of said agent.
- 64. The computer system of claim 62, wherein said step of using an electronic device to verify\_said agent is performing said requested service includes the steps of:
- (a) said agent updating said information database with a status report; and
  - (b) said principal accessing said information database.
- 65. The computer system of claim 62, wherein said step of using an electronic device to verify said agent is performing said requested service includes the steps of:
  - (a) said agent generating a status report; and
  - (b) said agent delivering said report to said principal.
- 66. The computer system of claim 62, wherein said step of using an electronic device to verify said agent is performing said requested service includes the step of:
  - (a) said principal terminating said power of attorney.
- 67. The computer system of claim 62, wherein said step of using an electronic device to verify said agent is performing said requested service includes the step of:

- (a) terminating said power of attorney upon said agent violating said terms and conditions or said constraints.
- 68. The computer system of claim 93, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
- (a) said principal paying a web site provider for an allotment of agent time;
- (b) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and
- (c) said web site provider paying said agent for said requested service.
- 69. The computer system of claim 93, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
  - (a) paying said agent a fixed fee;
- (b) said principal paying a web site provider for an allotment of agent time; and
- (c) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and
- (d) said web site provider paying said agent for said requested service.
- 70. The computer system of claim 93, wherein said step of said principal using an electronic device to pay said agent includes the steps of:
  - (a) paying said agent an hourly basis;
- (b) said principal paying a web site provider for an allotment of agent time;
- (c) deducting the time said agent spent on said step of said agent performing said requested service from said time bank; and
- (d) said web site provider paying said agent for said requested service.

#### 71.-88. (Canceled)

- 90. The method of claim 1 including the further step of said principal using an electronic device to pay said agent.
- 91. The method of claim 11 including the further step of said principal using an electronic device to pay said agent.
- 92. The computer readable medium of claim 33 including the further step of said principal using an electronic device to pay said agent.
- 93. The computer system of claim 52 including the further step of said principal using an electronic device to pay said agent.

tioners were temporary, and if so (2) firm agency determination, if at all, on ground that agency gave for decision). On remand, the Board must determine (1) entitled to compete for these positions since they involved functions that were transferwhether the positions sought by the petiwhether the petitioners were nonetheless red to the new agency.

Anderson, and Watson to the two positions could have been entitled to the two posisitions in place of the persons to whom the positions were assigned, the Board then If the Board should conclude that these three petitioners were entitled to those powill have to determine the relative priority of entitlement among petitioners Acerno, involved. Only two of these petitioners Former CSA Employees, 762 F.2d at 984. tions all three of them are seeking.

#### CONCLUSION

ration of Mr. Pizzi, Ms. Hudgins, and Ms. Pilgrim are affirmed. The Board decisions sustaining the separations of Mr. Acerno, Ms. Anderson, and Ms. Watson are rewhether the two positions these former employees seek were temporary and, if they were, (2) whether the petitioners nevertheless are entitled to these positions because they are "transition" positions. versed, and the cases of those petitioners are remanded to the Board to determine (1) The Board decisions sustaining the sepa-

AFFIRMED IN PART, REVERSED IN PART, AND REMANDED.



\* This opinion issued as an unpublished opinion on December 11, 1986. On request of counsel

## In re Gary E. GEIGER.\*

United States Court of Appeals, Appeal No. 86-1103.

Federal Circuit.

April 1, 1987.

Applicant appealed decision of Patent peals and Interferences, which affirmed examiner's rejection of claims, on basis of obviousness, relating to method of inhibiting scale formation on and corrosion of The Court of Appeals, Archer, Circuit Judge, held that prima facie case of obviand Trademark Office Board of Patent Apmetallic parts in cooling water systems. ousness was not established.

#### Reversed.

Pauline Newman, Circuit Judge, concurred and filed opinion.

#### 1. Patents \$\mathbb{C}\$113(6)

obviousness is correctness or error as a Standard of review for conclusion of matter of law, 85 U.S.C.A. § 103.

#### 2. Patents @16.5

combining teachings of prior art to produce claimed invention, absent some teaching, suggestion, or incentive supporting combi-Obviousness cannot be established by nation, 35 U.S.C.A. § 103.

#### 3. Patents @16.25

have made it obvious to one skilled in art to of metallic parts in cooling water systems phosphorus acid compound or water soluble try various combinations of known scale and corrosion prevention agents disclosed, out were insufficient to establish obviousnot established with respect to method of inhibiting scale formation on and corrosion by use of compositions containing sulfonatwater soluble zinc compound, and organosalt thereof; disclosures in prior art referenced in instant patent application may Prima facie case of obviousness was ed styrene/maleic anhydride copolymer,

for appellant, it is now being reissued as a published opinion.

# Cite as 815 F.2d 686 (Fed. Cir. 1987)

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ness, in absence of some suggestion in prior art supporting combination which resulted in instant method, 35 U.S.C.A.

seph F. Nakamura, Sol. and Fred E. McKel-Bruce E. Peacock, Betz Laboratories, Inc., Trevose, Pa., argued, for appellant. Robert D. Edmonds, Associate Sol., Office of the Sol., Arlington, Va., argued, for appellee. With him on the brief, were Jorey, Deputy Sol.

SKELTON, Senior Circuit Judge, and ARCHER, Circuit Judge. Before NEWMAN, Circuit Judge,

## ARCHER, Circuit Judge.

Jnited States Patent and Trademark Office This is an appeal from a decision of the (PTO) Board of Patent Appeals and Intermaining claims, 43-63 and 65-67, in appellant's patent application, Serial Number ferences (board), Appeal No. 606-09, affirming the examiner's rejection of all re-373,903 ('903), under 35 U.S.C. § 103. reverse.

#### Background

The '903 application, filed on May 3, (3) an organo-phosphorus acid compound or 1982, is directed to a method of inhibiting lic parts in cooling water systems by use of compositions containing (1) a sulfonated styrene/maleic anhydride (SSMA) copolymer, (2) a water soluble zinc compound, and scale formation on and corrosion of metalwater soluble salt thereof.

tions under 35 U.S.C. § 103, finding that the claimed subject matter would have In its decision dated February 7, 1986, the board affirmed the examiner's rejecbeen obvious in view of various combinations of references, but with reliance primarily upon U.S. Patent No. 4,209,398 is-'33 issued to Snyder, et al. (Snyder '733) sued to Ii, et al. (Ii), U.S. Patent No. 4,374,-

1. Hwa was cited only with respect to dependent

and U.S. Patent No. 4,255,259 issued to Hwa, et al. (Hwa).1

phonic acids and water soluble salts thereof, organic phosphoric acid esters and water soluble salts thereof, and polyvalent Although the Ii polymeric The Ii patent discloses use in cooling water systems of scale and corrosion prevention compositions comprised of a polymeric component in combination with one or more compounds selected from the group consisting of inorganic phosphoric acids and water soluble salts thereof, phoscomponent may contain maleic acid and styrene monomers, there is no disclosure of the specific copolymer, SSMA, required in applicant's claims. metal salts.

er and another polymeric component, which The Snyder '733 patent discloses a method for treating cooling water systems a composition comprised of an acrylic acid/lower alkyl/hydroxy acrylate copolymmay be SSMA or a styrene/maleic anhydride (SMA) copolymer. The Snyder '753 patent notes that boiler and cooling water systems share a common problem in regard to scale deposit formation and that use of SMA to prevent scale in boiler water sysprone to scale formation by the addition of tems is known. The Hwa patent is directed to a method for treating boiler water systems that are prone to scale formation by addition of a composition comprised of SSMA and an organo-phosphorus acid compound,

The remaining references, cited with re-

spect to certain dependent claims, contain no suggestion to use SSMA, the specific Based upon the prior art and the fact that each of the three components of the held that it would have been prima facie \$ 103, to employ these components in combination for their known functions and to copolymer recited in the appealed claims. composition used in the claimed method is conventionally employed in the art for treating cooling water systems, the board obvious, within the meaning of 35 U.S.C. optimize the amount of each additive. The

claims 47 and 49.

board further held that data appearing in

appellant's specification, and supplemented by a declaration submitted pursuant to 37 dence of nonobviousness to rebut the prima C.F.R. § 1.132, provided insufficient evifacie case.

#### Issues

- 1. Whether the board erred in finding that a prima facie case of obviousness was established.
- Assuming that a prima facie case of obviousness was established, whether the jective evidence with regard to unexpected results was insufficient to rebut that prima board erred in finding that appellant's obacie case.

#### Analysis

230 USPQ 416, 419 (Fed.Cir.1986). For a conclusion of obviousness, the standard of 226 USPQ 1, 3 (Fed.Cir.1985); In re De-Blauwe, 736 F.2d 699, 703, 222 USPQ 191, 86 S.Ct. 684, 15 L.Ed.2d 545, 148 USPQ 459 of law. In re Caveney, 761 F.2d 671, 674, [1] Obviousness is a question of law based upon the factual inquiries mandated (1966). Bausch & Lomb, Inc. v. Barnesreview is correctness or error as a matter Graham v. John Deere Co., 383 U.S. 1, Hind/Hydrocurve, Inc., 796 F.2d 443, 447 195 (Fed.Cir.1984)

was erroneous. Appellant argues that the PTO's position represented hindsight reconstruction or, at best, established that it would have been "obvious to try" various prevention agents, including the combinacombinations of known scale and corrosion Appellant contends that the PTO failed to establish a prima facie case of obviousness and, consequently, that the board's affirmance of the examiner's rejections tion recited in the appealed claims. [2,3] We agree with appellant that the PTO has failed to establish a prima facie case of obviousness. Obviousness cannot established by combining the teachings the prior art to produce the claimed invention, absent some teaching, suggestion or incentive supporting the combination. ACS Hospital Systems, Inc. v. Montefiore Hospital, 732 F.2d 1572, 1577, 221

USPQ 929, 933 (Fed.Cir.1984). We are convinced that the latter are not present here.

respect to claims 47 and 49, Hwa does phosphorus acid compound. It provides, however, no suggestion to add a zinc comand organo-phosphorus acid compounds, or to use SSMA in combination with an organo-phosphorus acid compound in the treatment of a cooling water system, where the characteristics may significantly differ Hwa also provides no suggestion that SSMA could prevent precipitation of the zinc (II) ion in alkaline cooling water in the manner ascribed to the polymeric compo-"polyvalent metals from becoming insoluit is for the purpose of showing that it, or lymers, may be used in combination with yet another polymeric component, an acryllymer, to prevent scale formation. With disclose the specifically-recited organofrom those in Hwa's boiler water system. li notes that it is difficult to maintain a predetermined concentration of polyvalent metal ions, such as the zinc (II) ion, in alkaline cooling water, but states that its claimed polymeric component prevents the though Snyder '733 discloses use of SSMA, one of three other specifically recited copoic acid/lower alkyl/hydroxy acrylate copopound to its disclosed combination of SSMA Ii does not suggest use of SSMA as its claimed polymeric component and does not require the presence of an organo-phosphorus acid compound or of a zinc compound. ble compounds and precipitating.... nent of Ii.

U.S.C. § 103. In re Goodwin, 576 F.2d 375, 377, 198 USPQ 1, 3 (CCPA 1978); In re Antonie, 559 F.2d 618, 195 USPQ 6 (CCPA 1977); In re Tomlinson, 363 F.2d skilled in the art might find it obvious to try various combinations of these known However, this is not the standard of 35 At best, in view of these disclosures, one scale and corrosion prevention agents. 928, 150 USPQ 623 (CCPA 1966).

ure to establish a prima facie case of the sufficiency of the showing of unex-Because we reverse on the basis of failobviousness, we need not reach the issue of pected results.

Cite as 815 F.2d 686 (Fed. Cir. 1987) IN RE GEIGER PAULINE NEWMAN, Circuit Judge,

concurring.

did not present a prima facie case that the claimed invention would have been obvious er a prima facie case of obviousness has trols the evidentiary procedures and bur-I agree in the court's result, but respectfully do not share the view that the PTO in terms of 35 U.S.C. § 103. I write separately because the determination of whethbeen made is a critical decision that condens before the PTO.

There is no teaching of SSMA in the Ii .5 differs from applicant's system in that the reference. However, the Snyder '733 refwater systems. The use of SSMA in coop-Hwa does not use zinc ions, and it is known that zinc ions produce undesirable results in boilers, but the Ii reference states that it combination with organo-phophorus acids or salts to inhibit corrosion in cooling wa-The claims are directed to a three-compoin cooling water systems, the components being (1) zinc ions, (2) a copolymer of sulfonated styrene and maleic anhydride (SSMA), and (3) an organo-phosphorus acid or salt. A three-part system is described in the Ii reference for the same purpose, but copolymer component (2) is different. erence teaches SSMA in combination with other polymers to control scale in cooling eration with phosphonate is known to reduce scale and sludge in boilers (Hwa). nent system to control scale and corrosion was known to use zinc ions alone or

corrosion inhibitors, to SSMA to achieve F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 8 Thus each of Geiger's three components combination, for use in cooling water systems. In my view, it would have been prima facie obvious to replace the polymer component of Ii with the known scale inhibitor SSMA, or to add an organophosphorus compound and zinc ions, both known ing water systems. In re Kerkhoven, 626 1980); Minnesota Mining & Manufacturing Co. v. Ansul Co., 213 USPQ 1024, has been described, separately or in partial both scale and corrosion resistance in cool-The Board 1033-34 (E.D.Wis.1981).

The applicant, in rebuttal of the PTO's and that the superiority was not obvious in view of the cited references. In support of prima facie case, argued that his three-component system exhibits superior properties, this argument the applicant relied on experimental data in the specification.

cause the applicant did not include data stating that "the superior performance of the prima facie case was not rebutted besuch compositions may be due to the supe-The specification contains data on the corrosion/scale control capability of various combinations of components, including data comparing the applicant's three-part system containing SSMA with other threepart systems containing other preferred scale-preventing polymers of the prior art. These data showed significant superiority of applicant's system; this was not disputed. The Board nevertheless held that showing the properties of SSMA alone, riority of SSMA vis-a-vis the other scalepreventing copolymers."

it would have been of scientific interest to comparative showing "must be sufficient tive effectiveness of applicant's claimed compounds and the compounds of the clos-316, 203 USPQ 245, 256 (CCPA 1979), and must "provide an adequate basis to support include such data. However, as a matter complied with the requirement that the re Johnson, 747 F.2d 1456, 1461, 223 USPQ The applicant demonstrated the exceptional corrosion inhibition achieved with his three-part system in comparison with systems containing the known corrosion inhibitors zinc ion and organophosphorus compounds. He also compared his combination with systems containing other known polymeric scale inhibitors such as those taught by Ii, and demonstrated that those systems did not provide the improvement in corrosion and scale control achieved with the SSMA combination. He also demonstrated that neither polyma-I agree with the Board to the extent that of law I believe that the applicant's showto permit a conclusion respecting the relaest prior art," In re Payne, 606 F.2d 303 ing was reasonable and sufficient. a legal conclusion of unobviousness." (260, 1264 (Fed.Cir.1984).

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leic anhydride nor sulfonated polystyrene had the same effect on corrosion resistance as did the SSMA copolymer.

Applicant compared his system with the most relevant prior art. It is not required that the claimed invention be compared with subject matter that does not exist in the prior art. The applicant is not required to create prior art, nor to prove that his invention would have been obvious if the prior art were different than it actually The Board also upheld the examiner's additional rejection that it would have been obvious to add zinc ion to the two-compo-The Hwa system is for the reduction of scale and sludge at the high temperatures that zinc ion is not usable at high temperanent SSMA/phosphonate system of Hwa. of steam boilers, and it was uncontroverted tures. Applicant provided data showing not contradict this position on its scientific that the Hwa system is relatively ineffective in a cooling system. The Board did merits.

The applicant compared SSMA/phosphonate (Hwa) alone, SSMA/zinc, and phosphonate/zinc, with his three-component

system, and achieved results that the Board held showed "superior performance." These results are sufficient in obviousness. See In re De Blauwe, 736 themselves to rebut a prima facie case of F.2d 699, 705, 222 USPQ 191, 196 (Fed.Cir. 1984). Turning to the rejection on the breadth rate with the disclosure. Although I do not of the claim language, the limitations in the claims appear to be reasonably commensuagree with the applicant that it is incumbent on the Commissioner to offer "techniare illustrative of the limitations described in the specification, and are not in themcal evidence", applicant's specific examples selves further limitations. In re Johnson, 558 F.2d 1008, 1017, 194 USPQ 187, 195 (CCPA 1977); In re Goffe, 542 F.2d 564, 567, 191 USPQ 429, 431 (CCPA 1976).



# DECISIONS WITHOUT PUBLISHED OPINIONS

# UNITED STATES COURT OF APPEALS

#### First Circuit

# DECISIONS WITHOUT PUBLISHED OPINIONS

Appeal from and Citation (If reported) D.Mass.	D.P.R.	D.N.H.	D.P.R.	D.Me.	D.Me.	D.Me.	D.R.I.	D.P.R., 637 F.Supp. 426	D.Mass.	D.N.H.	I.N.S.		D.P.R., 649 F.Supp. 1083	D.Me.	D.N.H.	D.R.I.		D.Mass., 619 F.Supp. 1073	D.Mass.	D.Me.	D.P.R.	D.Mass., 629 F.Supp. 540	•	D.P.R.	D.Mass.	D.P.R., 631 F.Supp. 1023
Disposition DENIED	VACATED AND REMANDED	DISMISSED AND REMANDED	AFFIRMED	AFFIRMED	AFFIRMED	AFFIRMED	AFFIRMED	AFFIRMED	AFFIRMED	AFFIRMED	GRANTED; VACATED AND REMANDED		DISMISSED	AFFIRMED	DENIED	AFFIRMED		DISMISSED	AFFIRMED	DENIED; DENIED; AFFIRMED	DISMISSED	AFFIRMED		AFFIRMED	DENIED	AFFIRMED
Date 1/5/87	1/7/87	1/7/87	1/8/87	1/8/87	1/8/87	1/8/87	1/9/87	1/20/87	1/22/87	1/23/87	1/29/87		1/29/87	2/3/87	2/4/87	2/10/87	•	2/12/87	2/13/87	2/18/87	2/25/87	3/4/87		3/4/87	3/6/87	3/10/87
Docket  Title Nells Real Estate, Inc., In re86-2145 Inner Criticalo, Secretary of	Health and Human Services 86-1357	White v. Town of Gilford86-1844	Filardi v. Zamora86-1471	U.S. v. Baronow86-1779	U.S. v. Myatt86-1780	U.S. v. Bellino86-1781	U.S. v. Campos86–1699	Ameridiaxen v. University of Puerto Rico86-1533	Correra v. Anderson86-1714	U.S. v. Landau86-1800	Khan v. I.N.S	International Ladies' Garment	Workers' Union v. Bali Co 86-2065	Fallon, In re86-1159	Welcohojian Bealth Com	Delvicario86-1797	89	Ass'n, Local Union 1786-1579	Cavanaugh v. U.S 86-1845	Robbins v. City of Auburn, Mc86–1830	Font, In re87-1001	Collins v. Ex-Cell-O Corp. Co86-1315	Cruz v. Secretary of Health and	Human Services86-1879	Levasseur, In re87-1138	Charles v. West Indies Transport 86–1427

of sixty (60) days. Any employee seeking a ployees are customarily posted for a period copy of this Order shall be provided with itself. Moreover, a copy of this order shall be posted conspicuously in Defendant's discrimination violates Title VII of the Civil Rights Act of 1964, the Florida Human Relations Act, and the policy of defendant workplace in locations where notices to emnotify this Court of compliance by filling ing for each employee attending. The general manager shall raise affirmatively the subject of racial harassment and discrimination with all of his employees and inform all employees that racial harassment and human resource development training classes as soon as practicable and shall certificate of completion, signed by the individual or organization providing such traintend equal employment opportunity related

party. Further, defendant shall seek to harassment is eradicated. This grievance procedure shall be written in consultation all employees. It shall establish a system whereby harassed employees may complain to the general manager immediately and confidentially. The general manager shall be required by this grievance procedure to promptly take all necessary steps to investigate and correct any harassment or discrimination, including warnings and appropriate discipline directed at the offending generally develop other means of preventing harassment in its work place. See with counsel for plaintiff and provided to Further, the defendant shall institute a to swiftly and effectively assure that racial grievance procedure in accordance with its own policy manual which shall be designed Bundy, at 947.

The Court retains jurisdiction to monitor this injunction, upon proper motion, to assure that no discrimination occurs in the

costs of this action and to reasonable attorto award reasonable attorneys' fees and neys' fees. The Court retains jurisdiction [14] The plaintiff shall be entitled to all

Dock Specialists, Inc., Mid-Atlantic trial Sales, Inc., Northway Material ment Corporation, U.S. Materials Hanand Stordox Equipment Co., Plaintiffs, mick Equipment Company, Inc., Metro Handling Systems, Inc., Niehaus Indus-Handling Co., Inc., Rice Equipment Co., Stokes Equipment Company, Inc., Timbers & Associates, Inc., Todd Equipdling Corp., John L & Associates, Inc., ing Dock Equipment Co., Inc., McCor-Equipment Systems, Inc., Great North-ern Industrial Prod., Inc., HOJ Engiment Co., Keller Equipment Co., Inc., King Industrial Equipment, Inc., Load-Dock Specialists, Inc., Allied Equip-ment Corp., Anderson Material Handling Co., Applied Handling, Inc., C & L Equipment Corporation, W.E. Carlson Corporation, R.B. Curlin, Inc., neering & Sales Co., Inc., Indy Equipment Company, Inc., Johnson Equip-CORPORATION,

# KELLEY COMPANY, INC., Defendant.

Civ. A. No. 83-C-434.

United States District Court, E.D. Wisconsin.

March 5, 1986.

injunction pending appeal would expire within 30 days of filing date of decision and order unless notice of appeal was filed Chief Judge, held that: (1) asserted claims for patent, involving restraining device used to hold truck in place while being was valid and infringed, but (2) stay of Action was brought for patent infringement. The District Court, Reynolds, loaded or unloaded from a loading dock, within that period.

Order in accordance with opinion. See also, 99 F.R.D. 332.

#### 1. Patents @16.1

"as a whole" in determining obviousness is Failure to consider claimed invention an error of law, 35 U.S.C.A. § 103.

## RITE-HITE CORP. v. KELLEY CO., INC. Cite as 629 F.Supp. 1042 (E.D.Wis. 1986)

### 7. Patents @314(5)

2. Patents @16.5

Determination that a claimed invention is "anticipated" under 35 U.S.C.A. § 102 is

as arranged in the claim, either expressly principles of inherency, in single prior art reference, or that claimed invention was previously known or embodied in single prior art reference, or that claimed invention was previously known or embodied in single prior art device or practice. 35 U.S. claim was anticipated must show that each and every element of patent claim is found, or implicitly described under appropriate C.A. § 102.

#### 9. Patents \$\sim 312(1)\$

or sold by another. 35 U.S.C.A. § 271(a).

#### 11. Patents \$226.6

claims measure invention and define bound-In patent infringement action, patent aries of patent protection. 35 U.S.C.A. vention ultimately satisfied, whether the and whether the accused infringer recog-

patented invention met with substantial

success upon its introduction to the market, nized that the invention was truly meritori-

#### 12. Patents \$226.6

If allegedly infringing product falls lit-

solved by comparing accused device with claims of the patent, not with the structure described in the patent or the patentee's commercial device. 35 U.S.C.A. §§ 112, Question of patent infringement is re-

> To assert that a patent claim is anticipated under 35 U.S.C.A. § 102, a party must demonstrate identity of invention.

6. Patents @72(1)

## when considering obviousness of an inven-Factors to be considered in determining level of "ordinary skill in the art,"

Party which seeks finding that patent a factual determination. 8. Patents @72(1) of ordinary skill, types of problems encounfactors may predominate or be given more weight in a particular case. 35 U.S.C.A. tion, may include educational level of one tered in the art, prior art solution to those problems, rapidity with which innovations ogy; not all of such factors need be considered in every case, and one or more Mère fact that disclosures or teachings are made, and sophistication of the technolof prior art can be retrospectively com-

obvious, unless the art also suggested de-

ness/nonobviousness issue does not make the combination set forth in the invention sirability of the combination, inventor's beneficial results, or advantage to be derived from combining the teachings, 35

bined for purposes of evaluating obvious-

3. Patents @16.5

Burden of patent owner in proving indoctrine of equivalents as well as to literal fringement by a preponderance of the evidence extends to infringement under the infringement. 35 U.S.C.A. § 271(a).

#### 10. Patents \$\sim 226\$

Issue of infringement of a patent raisand has what is patented been made, used, es at least two questions: what is patented,

> Objective evidence of nonobviousness of an invention includes whether patented

4. Patents =36.1(3, 4; 5), 36.2(1)

U.S.C.A. § 103.

invention fulfills long-felt need in industry to which it applied, whether others tried and failed to meet the need which the in-

ous. 35 U.S.C.A. § 103. 5. Patents \$36.1(5)

erally within patent claim when words are given their proper meaning, infringement of patent is made out, and that is the end of the inquiry. 35 U.S.C.A. §§ 112, 271(a). 13. Patents \$25.6 In determining nonobviousness of patalleged infringer is strong evidence of what alleged infringer thinks of the patent in. suit and is persuasive of what the rest of the world ought to think. 35 U.S.C.A. ented invention, imitation of invention by

### 14. Patents @167(1)

in light of the specification, and both are to be read with a view to ascertaining the Claims of a patent are to be construed invention. 35 U.S.C.A. § 112.

### 15. Patents @165(1)

Each patent claim must be considered as defining a separate invention.

## 16. Patents @165(3)

combinations that utilize any structure which is the equivalent of that described structure insofar as it performs the stated tions which utilize as the stated means the structure described in the specification for performing the stated function and also all Patentee's claim covers all combinafunction. 35 U.S.C.A. § 112.

## 17. Patents @165(1)

"means" claim may be determined. 35 claims in patent, and expert testimony; once such factors are weighed, scope of the claim, a number of factors may be considered: language of claim, patent specification, prosecution history of patent, other In construing a "means plus function" U.S.C.A. § 112.

## 18. Patents @314(5)

the patent claim in issue is a question of Issue as to whether a device is an equivalent of the described embodiment of fact. 35 U.S.C.A. § 112.

# 19. Patents -234, 239, 240

fringement by mere fact that its invention ter claimed by patent owner or performs additional functions or adds features or is is more or less efficient than subject mat-Alleged infringer cannot escape inan improvement. 35 U.S.C.A. § 112.

## 20. Patents \$226.6

Narrow patent claim limitations cannot be read into broader claims to avoid infringement. 35 U.S.C.A. § 112.

### 21. Patents \$\infty\$165(2)

Claims of a patent are the measure of the protected invention. 35 U.S.C.A. § 112.

#### 22. Patents @ 237

and breadth to application of patent claim language to prevent infringer from perpetrating a fraud on the patent; the doctrine is designed to protect a patentee from an infringer who appropriates the invention even if the infringer avoids the literal language of the claim. 35 U.S.C.A. § 112. "Doctrine of equivalents" adds latitude

See publication Words and Phrases for other judicial constructions and definitions.

#### Patents @172

claim is entitled is on a sliding scale depending on the nature of the invention. 35 Range of equivalents to which a patent U.S.C.A. § 112.

#### 24. Patents 0273

identical means and mode of operation shown in the patent. 35 U.S.C.A. § 112. strued liberally and are not to be limited to nificant commercial success or is of the pioneer type, patent claims are to be con-When patented invention has had sig-

## 25. Patents \$173, 174

of old ingredients that produce new and Broad protection is given not only to make substantial contribution to existing art and patents that consist of combination so-called pioneer patents, but patents that useful results. 35 U.S.C.A. § 112.

#### 26. Patents e-172

Claims of a patent are entitled to a range of equivalents commensurate with the scope of the invention. 35 U.S.C.A. § 112.

#### 27. Patents @237

ponent that may be more sophisticated than that disclosed in specific embodiment of patent does not allow alleged infringer to escape appropriate range of equivalents and thereby avoid infringement of the Mere use by alleged infringer of comclaimed invention. 35 U.S.C.A. § 112.

### 28. Patents @319(4)

should recover prejudgment interest under for infringement of its patent, patentee 35 U.S.C.A. § 284 in order to prevent in-In addition to other relief recoverable

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fringer from having benefit of use of mon-ey which it would have been paying in

# 29. Patents @16.14, 235(2)

royalties.

Claims 1, 2, 3, 8, 12, and 13 of patent involving restraining device used to hold a truck in place while being loaded or unloadfrom a loading dock were valid and

## 30. Federal Courts \$⇒685

yet been filed, district court had authority to grant stay of injunction pending appeal conditioned on movant's filing of notice of Fed. Even though notice of appeal had not appeal within a specified period. Rules Civ. Proc. Rule 62(c), 28 U.S.C.A.

## 31. Federal Courts \$\=685

District court may in its discretion suspend final judgment granting injunction if party seeking suspension of judgment pending appeal can show that it is likely to public interest. Fed.Rules Civ. Proc. Rule prevail on merits on appeal, it will suffer irreparable injury unless stay is granted, stay would not substantially harm other parties to the litigation, and stay is in the 52(c), 28 U.S.C.A.

# 32. Federal Courts \$\=685

and grant of stay would cause only slight harm to appellee. Fed.Rules Civ.Proc.Rule cess on the merits on appeal need not be Showing of absolute probability of sucmade in order to obtain stay of injunction pending appeal if injunction would destroy status quo, irreparably harming appellant, 52(c), 28 U.S.C.A.

## 33. Federal Courts @685

#### Patents 6-324.1

Stay pending appeal, without bond, of injunction enjoining competitor from in-fringing patent would expire within 30 days of filing date of decision and order granting the injunction unless notice of appeal was filed within that period. Fed. fringing patent would expire within Rules Civ. Proc. Rule 62(c), 28 U.S.C.A.

Theodore W. Anderson, Arthur W. Olson, Jr., Lawrence E. Apolzon & Roger H.

Foley & Lardner, Milwaukee, Wis., for Stein, Neuman, Williams, Anderson & Olson, Chicago, Ill. and Gilbert W. Church, plaintiffs. Glenn O. Starke, Andrus, Sceales, Starke & Sawall, and Matthew J. Flynn, Quarles & Brady, Milwaukee, Wis., for defendant.

## DECISION AND ORDER

# REYNOLDS, Chief Judge.

This is an action in patent infringement tion derives from 28 U.S.C. § 1338. The plaintiffs Rite-Hite Corporation ("Riteinfringes a patent owned by Rite-Hite, and that Kelley has competed unfairly by its counterclaimed, alleging that Rite-Hite's and is therefore void, and that Rite-Hite and unfair competition. Federal jurisdic-Hite") and its independent representatives seek a judgment that a truck restraining device manufactured and distributed by defendant Kelley Company, Inc. ("Kelley") use of a promotional film. Kelley has patent is obvious in view of the prior art has competed unfairly. The parties have agreed that the issues of liability and damages be tried separatefrom further use of unexpurgated versions at the time the issues of liability on the patent claims and Kelley's claims of unfair ly. Rite-Hite also applied for preliminary injunctive relief with respect to its claim of unfair competition respecting Kelley's promotional film, and Kelley was enjoined of the film by the Court's order of March 16, 1984. Kelley was subject to this order competition were tried to the Court.

The foregoing claims were tried to the Court between May 20 and May 29, 1985. At the close of the proceedings, I stated:

I am persuaded that the evidence compels a decision that the patent is valid. it was not obvious. And I am sorry that I have to find that the patent was in-

willful. I think that the Kelley people, in I do not believe the infringement was the spirit of good competition, Rite-Hite came out with a product, and they wanted to meet the product and they did the

best they could and certainly did not think the evidence compels me to find intend to infringe on that patent, but I that they did.

junctive powers to be issuing-equity powers, issuing any more injunctions for of the federal court I think should be used very sparingly. I don't think there is any irreparable injury on either side as far as this advertising. The film has not been used for a couple years, or at least since we had the hearing on preliminary injunction. I see no reason for the Court in the exercise of its discretion and in-As far as the unfair competition issues involved, the use of the injunctive powers either side.

an outcome favoring the defendant and are not supported by the evidence. What follows, therefore, are essentially the findings of fact and conclusions of law proposed by plaintiffs with exceptions where a defense objection has been sustained by the Court in view of the evidence presented at trial. be sustained, but that others would direct and the plaintiffs have responded to the objections. Kelley has also moved for a stay of the injunction pending appeal, and Rite-Hite opposed this motion. I am persuaded that certain of the objections should of law, with a period of time allotted to defendant to comment thereon. The plaintiffs have filed their submission, the de-The plaintiffs were then directed to file proposed findings of fact and conclusions fendant has objected to certain provisions,

# I. FINDINGS OF FACT

# Parties and Jurisdiction

- poration having its principal place of busi-1. Plaintiff Rite-Hite is a Wisconsin corness at Milwaukee, Wisconsin. The other plaintiffs are Rite-Hite's independent and exclusive sales representatives throughout the country.
- 2. Defendant Kelley is also a Wisconsin corporation with its principal place of business at Milwaukee, Wisconsin.
- 3. Rite-Hite and Kelley, together, are dominant factors in the dock leveler indus-

try and have been keen competitors since Rite-Hite was founded in 1965.

- ment arising under the patent laws of the United States, Title 35 U.S.C. The court venue lies in this district under 28 4. This is an action for patent infringehas jurisdiction under 28 U.S.C. § 1338(a), U.S.C. § 1400(b). and
- the statutory and common laws of the State of Wisconsin. The court has jurisdic-5. There are also claims and counterclaims for unfair competition arising under tion under 28 U.S.C. § 1338(b).

### History of the Case

on February 27 and 28, 1984. A decision was rendered in favor of Rite-Hite on junction enjoining use of a motion picture as well as with unfair competition. On a preliminary injunction motion, the unfair competition count was heard by this Court March 16, 1984, granting a preliminary infilm which appeared to characterize unfair-Rite-Hite charged Kelley with infringement of U.S. Patent 4,373,847 (the '847 patent), This action was initiated in early 1983, shortly after the patent-in-suit issued. ly Rite-Hite's Dok-Lok product.

truck and the dock.

patent is invalid. The remaining issues relate to unfair competition and are menunder which the other plaintiffs-Acme Dock Specialists, Inc., et al.-have certain exclusive territorial rights, and (2) whether Kelley could carry its burden that the '847 patent owned by the plaintiff Rite-Hite, and A trial was held before the Court in this The main issues were (1) whether or not 7. Rite-Hite subsequently filed a motion for intervention on behalf of certain independent and exclusive Rite-Hite sales repaction from May 20 through May 29, 1985. the defendant Kelley has infringed the '847 resentatives, and the motion was granted. tioned further below.

# C. Rite-Hite's Background

boards, are devices that automatically or semi-automatically bridge the gap between a truck and a dock so that forklift trucks 8. Dock levelers, or automatic dock-

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the problem. Kelley worked on a somewhat similar and equally ineffective "communication" system. can safely pass over that gap during the ers, in general, have replaced the loose loading and unloading process. Dock level-

drop. This, in turn, tends to tip the whole 13. In yet another situation, the forklift driver can suffer severe or fatal injuries in a stationary position on the dockboard outward or free end of the dockboard rests on the bed of the truck. When the vehicle pulls away, the end of the dockboard lip that was supported by the truck tends to dockboard downwards and pitch the forklift, its operator, and/or its load onto the even if, when the truck inadvertently separates from the dock, the forklift is parked and is fully supported by the dockboard. This is because, in normal operation, the driveway. plates that were often used when loading 9. For years, dock leveler users and manufacturers as well as regulatory agenbecause of the way that large trucks and loading or unloading process. If this hap-pens a forklift can fall through the gap way below, and the results for the forklift truck and its operator can be catastrophic. 10. For instance, the forklift truck will almost always drop to the pavement if,

trailers, for a variety of reasons, inadvertently separated from the dock during the

cies recognized that a safety hazard existed

and unloading was done manually.

between the truck and dock onto the drive-

Stop," which was patented in the middle 1960's (DTX-183-8). This device had a ty Legs" in the early 1970's which, when 14. To eliminate this latter hazard, dock signed safety devices into their dock levelers to limit the extent to which the dockboard could tip downwards in the event of the inadvertent separation of the truck from the dock. Kelley developed its "Panic ratchet that was engaged to prevent the outward end of the dockboard from moving downward if the dockboard started to move down abnormally fast. This prevented the Rite-Hite also developed its patented "Safenot needed, could be pulled away, but when in normal operation, limited the extent to which the dockboard would descend in this ed a complete solution to the problem, but dents could result in death and added that the problem of accidental dropping of the leveler manufacturers many years ago defurther downward progress of the board. situation. Neither of these devices providthey clearly recognized the very real hazramp "has been a thorn in the side of mechanical dockboards for as long as such ard and need. In its 1966 patent (DTX-183-8), Kelley acknowledged that dock accipoards have been made" (DTX-183-8, col. all to keep the forklift and its operator from falling through the gap between the when the truck pulls away, the forklift is parked in a position where it is supported in part by the dockboard and in part by the truck. In this situation, there is nothing at 11. The forklift truck will also be exposed to this type of accident if it is moving In such situations, the driver may not notruck bed, especially if he is backing up out of the truck. Another hazard exists from sudden accelerations and decelerations of a loaded forklift inside a truck. In this situation, a considerable force tending to push the truck away from the dock can produce disaster. This phenomenon is sometimes referred to by Kelley and Rite-Hite as Aware of these life-threatening either into or out of the truck or trailer at the time the truck separates from the dock. tice the gap and drive the forklift off the problems, but lacking a real solution in the late 1960's and early 1970's, Rite-Hite pro-Dock Safety (T.D.S.) Package (PTX-3)1, which included wheel chocks, a large warning sign, and a "Dock Safety Rules" sign. But these were not an adequate remedy for

References to plaintiffs' trial exhibits will be identified as "PTX \_\_\_\_\_" and defendant's trial

vided its only answer at that time, its Total

"trailer creep."

exhibits as "DTX \_\_\_

disputes between dock equipment manufacturers. Rite-Hite sold its devices as standard equipment. Kelley's devices were 15. The question of whether the dockshould always be made mandatory features on all dock levelers was the subject of board safety devices described above could be sold as "options" or whether they sold as options.

device was offered on the market at that Wheel chocks were ineffective. Warning and "communication" systems from the dock inadvertently. No effective and representative at the meeting, Arthur K. White, became convinced that these safety stop devices then being offered were He concluded that what was really needed was something to restrain the vehicle physically so that it could never move away tee MH14 was held in October 1975 to of whether "safety legs" on dock levelers should be options or standard. During the course of this meeting, Rite-Hite's founder an approach to only part of the problem. 16. A meeting of American National Standards Institute (ANSI) Safety Commitconsider, among other things, this question were likewise ineffective.

#### The Development of Vehicle Restraints at Rite-Hite

during a product development program that lasted for a number of years. After Lok vehicle restraints, the rest of the industry, including Kelley, were skeptics or Rite-Hite introduced its commercial Dok-17. The '847 patent claims one of a series of basic inventions that Rite-Hite made copyists.

industrial hook that could be attached to latch which held a flexible steel cable and after consisted of a pipe clamp type of was long and arduous. Rite-Hite's first vehicle restraint, which was developed by anism mounted on a driveway in front of a was disposed at an angle relative to the driveway and engaged a part of the truck. Another device developed shortly there-18. Rite-Hite's development program 1977 but never marketed, involved a mechloading dock. The "engaging mechanism"

1977 for the Hydraulic Securing Device (flexible cable) that ultimately issued as U.S. Patent 4,146,888 on March 27, 1979 (PTX-1b). A physical example of this device was demonstrated at the trial (PTX-These devices all performed the same funci.e., they prevented the truck from inadvertently separating from the dock. Rite-Hite filed a patent application in October of any holes or crevices in the trailer to hold it in place (PTX-16). The next effort ining device (PTX-124). Both of these devices were mounted on the dock platform. tion that they were designed to perform, volved a flexible cable and hydraulic hold-

could obstruct traffic or be vulnerable to either on the driveway, where they could be hit by trucks or snowplows, or on the top surface of the loading dock, where they pensive, and they were relatively difficult nerable to damage because of their location 19. But these early vehicle restraints had drawbacks. They were relatively exto use. They were also obtrusive and vulforklift trucks moving about the dock.

demonstrated at the trial (PTX-17 and upwardly to an operative mode to engage the truck via the truck's ICC bar. This device represented a major advance in the Rite-Hite filed a patent application which Physical exhibits of these devices were also hook was operable either manually (by a art of vehicle restraints. Accordingly, issued as U.S. Patent 4,208,161 (PTX-1d). matically (with the power of an activated dock leveler). When used, it was pivoted 20. By the spring of 1978, Rite-Hite had developed a vehicle restraint mounted on the vertical face of the dock where it was less of an obstruction and less likely to be damaged. This device included a "pivoted member. The hook had a shank pivoted to the wall and a right angle hook to engage a vehicle. The hook member, when not used, was stored in a downwardly rotated position with the shank pendent along the wall. As the pivoted hook members refined over several generations, the driver standing on the driveway) or autohook"

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But these devices with a pivoted terms of the variations in ICC bars that could be accommodated. ICC bars are bars inventive efforts. The surveys also showed that "over-the-road" trailers had a lier generations (PTX-18) by permitting the hook to rotate against the resistance of a nook also had drawbacks. The main drawback was the fact that they were limited in that the Interstate Commerce Commission automobiles from running underneath of trailers and obtained data from trailer that ICC bars were present on all over-theroad trailers and also provided Rite-Hite bars in terms of shape and height from the ground. Rite-Hite found that the ICC bar ous problems for Rite-Hite's early pre-1978 Float was accommodated in one of the earrequires on most trucks to prevent low them in the event of rear-end collisions. To Rite-Hite conducted surveys of thousands manufacturers. These surveys indicated height varied as much as 15 inches from the legal maximum of 30 inches above the ground, and this variation presented serisuspension "float" of 2 inches to 21/2 inches. earn about the variations in ICC bars, with extensive knowledge about the differences that existed between the various ICC

Hite filed a patent application resulting in carriage. The carriage was biased upward with springs stored in the dock leveler to above the ground when it was not in operament of the ICC bar so that the carriage movement of the carriage positioned the tion to be activated and pivoted up to en-Hite found it could accommodate the vast vice was another substantial advancement in the art of restraining trucks, and Ritedal carriage was developed and added, and the pivoted hook was then mounted in the hold the carriage with the enclosed hook moved down against the springs as the hook so that it was always in a good posigage the ICC bar. With this device, Ritebulk of the ICC bars which its research had indicated would be encountered. The carriage also accommodated "float," This de-22. By late 1978, an adjustable trapezoition. The carriage was actuated by movetruck backed into the dock. The downward

(PTX-6h). A physical exhibit of this device was demonstrated at trial (PTX-19). ,621 U.S. Patent 4,282,621 (the

along which the carriage slides so that the dock leveler, and rotation of the hook was commercialized in the spring of 1980 as the Model ADL-100 Dok-Lok vehicle restraint. U.S. Patent 4,264,259 (the '259 Patent) (PTX-6j), disclosing and claiming this device, issued on April 28, 1981. This device 23. In 1979, Rite-Hite developed some improvements which further refined this "pivoted hook" restraint. Among other things, the springs are incorporated into opposite sides of the trapezoidal carriage restraint can operate independently of any motorized. It is this version of a restraint with a pivoted hook that was ultimately was also demonstrated at trial (PTX-131).

# E. U.S. Patent 4,373,847

continued after the introduction of the vehicle restraint that was simple, more rugged and inexpensive, and that could be 24. Rite-Hite's development program One of the program's cation. In order to achieve that objective, a objectives was cost reduction and simplifimanually operated, if desired, was sought. Model ADL-100.

VICE, was filed in the U.S. Patent and 25. In the spring of 1981, about a year ven Hipp and Norbert Hahn developed the first of Rite-Hite's MDL vehicle restraints. This is the system of the '847 patent and the Kelley Truk Stop. The '847 patent is entitled RELEASABLE LOCKING DE-Trademark Office on May 4, 1981, and isafter the introduction of the ADL-100, Stesued on February 15, 1983.

approach to a vehicle locking device or vepatent has a frame vertically extending up the dockwall and secured to the exposed frame for vertical movement between an upper operative position, where it will se-26. The '847 patent is directed to a new hicle restraint for securing a parked vehicle to an adjacent stationary upright structure such as a dockwall. The device of the '847 surface of the wall. It has a hook assembly that has a follower mounted in the

cure the vehicle against the wall, and a from the wall. The hook assembly has a hook portion. The device of the '847 patent further has a retaining means to retain the hook in its upper operative position but to lower inoperative position free of the vehicle so that the vehicle can be driven away horizontal shank portion extending outwardly from the follower and a vertical selectively permit the hook to be released to its lower inoperative position.

move, as a unit, several inches vertically downward when subjected to the forces of against the biasing force of the spring to provide downward float. This is a desirrestraining a vehicle. As a result, the retaining means and the hook element can bly engaged with the ICC bar. This downsprings which hold the slide so that the slide and the first part of the retaining means are upwardly biased even when not able feature, for without it, the device could become "jammed" by the weight of the truck pushing down on the hook assemward float is made possible by heavy duty means to move together downwardly movement of the hook from an operative to an inoperative position. Thereby, any loading of the vehicle, such as upon the entry of a forklift truck, will cause the hook, the slide, and the two parts of the retaining ent includes a slide as a part of the fixed A coacting complimental second part of the retaining means is carried by the hook and engages the first part to prevent accidental 27. In addition to the above-described basic structure, the device of the '847 patwardly by a biasing force and has a first part of the retaining means secured to it. wall-mounted frame, which is urged upa truck being loaded.

employed instead of a ratchet. At column particular embodiment. At column 3, line gated vertically extending devices, could be second part is a pawl, the description in column 2 starting at line 2 makes it very clear that the patent is not limited to this 5, the description makes it clear that other equivalent devices, and in particular elon-28. While, in the preferred embodiment described in the '847 patent, the first part of the retaining means is a ratchet and the

4, lines 9-10, the description makes it equally clear that other equivalent devices could be substituted for the pawl. From the testimony of both experts, the Patent Office prosecution history, and the other evidence, it is clear that the rack and pinion of Kelly and the threaded shaft of the Taylor, et al., reference, cited by the Examiner, are the equivalent of the ratchet and pawl shown in the particular embodiment lescribed in the '847 patent.

and the Kelley Truk Stop. Mr. Kjell Erlandsson, who is Kelley's Vice President of whether the word "releasably" was apt in finding that the Kelley rack and pinion tive position. The term is apt as indicated by the use of the term "Release" on the Iruck Stop control box for the purpose of lowering the hook to release it from en-Claims 1, 2, 3, 8, 12, and 13 of the '847 patent are found in the MDL, the MDL-55, Engineering and who testified as an expert witness for Kelley at trial, questioned releasably retained the hook in its opera-21) systems. The claimed elements in was also compared to the Model MDL-55 29. Recognizing the advancement in the tained the '847 patent disclosing and claiming this system. A physical MDL truck restraint constructed in accordance with the described embodiment of the '847 patent (PTX-20) was demonstrated at trial and (PTX-123) and the Kelley Truk Stop (PTXart of vehicle restraints represented by the MDL Dock-Lok, Rite-Hite sought and obgagement with a vehicle.

from and an improvement over previous capture area available to engage an ICC bar by the hook was changed to a rectangular area from the smaller semi-circular area provided by the pivoting hook, resulting in a better range of engagement. Also, the vertically travelling hook assembly has a smaller sweep or clearance area moving into the operating position to reduce the to simplicity of construction or the possibility of manual operation. The vertically traveling hook assembly is a new departure "pivoted hook" designs in part because the 30. The value of the invention of the model MDL and '847 patent is not limited

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Model MDL can be used either with or chance of interference with things other son made these observations at his deposition and continued to acknowledge these advantages at the trial. In addition, the than the ICC bar. In addition, the pivoting as there is no such concern with the vertihook has a tendency to rotate away, wherecally moving hook assembly. Mr. Erlandswithout a power source.

### F. The '847 Patent Was Commercialized As the MDL-55

shown in the '847 patent had downward 1981 came up with an improved version, the MDL-55. Although the basic device float, this unit did not have what people in the hook is not initially springbiased up road" trucks deflect between about 1 inch sembly shown in the '847 patent would assembly could also, of course, have been Rite-Hite had successfully tested large production quantities of parts when Messrs. Hip, Hahn, and Swessel in midagainst the ICC bar. At the trial, the evidence established that normal "over-thebars. The vertical hook portion of the hook sation for the "upward float" of the ICC production prototypes, was completing production drawings and obtaining quotes on the industry today call "upward" float, i.e., and 21/2 inches, so that in most situations, the vertical hook portion of the hook asaccommodate the upward float of the ICC made longer to provide additional compen-

off the truck, an initial bias is provided that increased the versatility of the vertically moving hook. The improved restraint han-dles not only "over-the-road" trailers but "city" trucks (a small percentage of the have weaker springs and, thus, deflect more than the "over-the-road" trailers. This improved MDL device, the Model MDL-55 vehicle restraint, is disclosed and claimed in U.S. Patent 4,443,150 (PTX-11). 55, if the ICC bar rises as weight is taken can raise the vertically movable hook. This vehicles to be restrained), which generally With the improvement of the MDL-

This model was also demonstrated at the trial (PTX-123).

55's have been sold, generating sales in the 33. Kelley did not dispute that this imuct of Rite-Hite. Over 1,800 of the MDLproved model MDL-55 device uses the '847 patent and has been commercialized by Rite-Hite and is a current successful prodmillions of dollars.

case, it appears from all of the evidence that the invention of the '847 patent was a patent, Kelley obtains the same advantages the '847 patent. While one can never be certain of the precise causal relationship of commercial success, nevertheless in this ley's Truk-Stop is additional evidence of the 34. Similarly, the Kelley Truk Stop uses pawl of the specific embodiment of the '847 as the MDL-55's initial upward float. Kelcommercial success of the invention of the '847 patent, but by using a motor and rack and pinion instead of the ratchet and very significant factor.

### G. Kelley's Development of Its "Truk Stop" Device

The facts established at trial indicate that Kelley learned about and made its vertically moving hook through its examination and adoption of the Rite-Hite MDL-55 device and the related literature.

cured U.S. Patent 4,488,325 (DTX-212), on 36. Kelley's imitation of the vertically moving hook and the other elements of the '847 patent is indicative of the value, the invention claimed in the '847 patent. Furthermore, the fact that Kelley has proaspects of its vehicle restraint, does not negate the infringement of Rite-Hite's '847 patent. The very foundation of the patent system contemplates that users of a basic if anything, that enhances the dignity of the importance, and the unobviousness of patent will make improvements with time. Both Kelley and Rite-Hite did so here, but the '847 patent. 87. Kelley's first knowledge of a workaduction of the ADL-100 Dok-Lok sold by ble vehicle restraint came with the intro-Rite-Hite in April of 1980. In June of 1980, Kelley's response to this first device of

cations devices (PTX-64). One year later, in June of 1981, Kelley was still working on communications type devices (PTX-65). Rite-Hite was to propose various communi-

- sued an instruction (PTX-30), the purpose of which was to allow the use of vehicle the time of the introduction of Rite-Hite's Model MDL-55, the Occupational Safety 38. In the late summer of 1981, about and Health Administration ("OSHA") isrestraints without wheel chocks.
- be sold by Kelley (PTX-36). This was a double injury in the market place. As a result, the representatives found that their pered by the presence of Rite-Hite vehicle ability to sell dock equipment was ham-39. At about this same time, Kelley's sales representatives began expressing increased concerns to Kelley (which was still without a vehicle restraint in its product line) that sales of Rite-Hite's vehicle restraints could be coupled with sales of Rite-Hite dock levelers which would otherwise restraints.
  - 40. Kelley had no plans for a physical restraint at the time of the OSHA instruction. Rather, Kelley's focus was still on communication. Knowing of the longstanding problem, Kelley had failed to recognize the solution.
- referred to its vehicle restraint as "Kelley's ately on a vehicle restraint to compete less than \$1,000 (PTX-32). During the course of this program, Kelley personnel 41. On Friday, November 13, 1981, John Hogseth (Kelley's Vice President of Marley's Director of Engineering) formally requesting Mr. Driear to begin work immediagainst the Rite-Hite Dok-Lok and to cost keting) sent a memo to Joseph Driear (Kelversion of the Dok-Lok" (PTX-36).
- was marked "received" by "Engineering," and a memo at the bottom in Mr. Driear's handwriting of the same date indicates that seth's requests but that the following were Mr. Driear would comply with Mr. Hogber 16, 1981, Hogseth's memo (PTX-32) On the following Monday, Novem-42
- (a) Engineering needed a copy of the OSHA regulations that sanction the use initially required:

of vehicle restraints (this was done four days later as noted below);

- uct development program should be sub-(b) The formal "request" for the prodmitted (there is evidence that this was, apparently, never done);
- ment to a memorandum from Hogseth (PTX-31), but other literature, such as an ADL-100 booklet, was not provided until (c) A copy of the "complete" Rite-Hite (the operating instruction sheet for the MDL-55 had been received by Engineering on September 17, 1981, as an attachliterature should be sent to Engineering later); and
- (d) A sample of the Rite-Hite product should be made available to Engineering (this was done on December 30, 1981, as described below).
- portray, among other things, the "pivoted hook" configuration shown in the Rite-Hite ents, including the patent claiming the hook), and made notes regarding the claims 43. On the next day, Mr. Driear carefully reviewed copies of certain Rite-Hite pat-Model ADL-100 restraint (with a pivoting of the patents (PTX-33). His notes all patents.
- Although the Model MDL-55 devices were marked "patent pending" (PTX-93), no search or study was made or opinion given on what patents might issue on the MDL-44. About that time, Kelley's patent atand they discussed the Rite-Hite patents. torney, Glenn Starke, visited Mr. Driear,
- 45. Also, at about this time, the vehicle was assigned the project number "915" and was assigned to David Bennett, a young engineer working under Mr. Driear's supervision. Mr. Bennett is now deceased. Kelley continued to work on communicarestraint development project of Kelley tions-type systems (PTX-65).
- 46. A date stamp on the OSHA instruction indicates that it was received by Kelley's engineering department on Friday, November 20, 1981 (PTX-30).
- wrote a memo in longhand setting forth the 47. On December 29, 1981, Mr. Bennett

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work schedule" for the "trailer anchoring device" (PTX-38). The memo sets forth a design work up to this point, and a high A memo and monthly report dated January 14, 1982, from Mr. Driear to Mr. Kuhns (PTX-58), also generally summarizes the work done on project 915 during December of 1981 as follows: "Conceptual work on truck/trailer anchoring device proceeded slowly due to higher priority projects." without a defined concept or significant if any, progress had been made in the priority had been given to obtaining additional information on Rite-Hite's product. development of vehicle restraint to compete Thus, at the end of 1981, Kelley was still number of tasks which indicate that little with Rite-Hite.

Tuf-Seal subsidiary (PTX-129). An hour after the installer left, the Kelley engitag on the device (PTX-26). At that time these tags indicated that patents were ly ordered Model MDL-55 Dok-Lok vehicle restraint was finally installed at Kelley's neers, including Mr. Driear, began inspectand photographing it. Polaroid photographs of the device were taken then and later placed on file in Kelley's engineering division (PTX-22 through PTX-29). These Driear at the site of the installation (PTX-26), the disassembled vehicle restraint as well as with a tape measure (PTX-24 and PTX-29) next to certain parts. One of these photographs shows the serial number 48. On December 30, 1981, the previousing, disassembling, measuring, operating, photographs, discussed at trial, show Mr. pending on the device (PTX-93).

operates by relative movement to position slide, hook, and retaining means as a unit 49. Messrs. Bennett and Driear knew, or had available to them as of the end of ble for them to know about the construction of the Rite-Hite Model MDL-55. They a channel in the support for a slide, a hook mounted for vertical movement in the support, and a ratchet and pawl assembly that the hook on the slide, retain it in the position, and permit downward float of the December 1981, everything that was possisnew the fact that it had a vertical support against a biasing force.

Service Bulletin that Kelley had obtained 50. On the next day, Robert Kuhns sent a memo (PTX-55) to Mr. Driear and a copy of a publication draft of a Model ADL on May 5, 1980, stating: With this (I think George Zahorik has the [MDL Dok-Lok], we should be able to original) and the Tuf-Seal Mechanical move.

- sketches that have been found of Kelley's device, which embodied all of the features tually commercialized as the Truk Stop. of Rite-Hite's device described above and claimed in the '847 patent claims 1, 2, 3, 8, 12, and 13, were complete. These first sketches show the product that was even-51. By January 12, 1982, the
- At the trial, Kelley claimed that est sketches and that they had previous sketches and work. However, Kelley was unable to produce any earlier sketches showing a device similar in any way to its Truk Stop, notwithstanding numerous requests made by Rite-Hite's counsel before and during the trial. In fact, on January 15, 1982 (PTX-57), these sketches were signed and witnessed by Kuhns and Driear. Furthermore, the evidence established at trial indicates that Kelley's practice is to have the first description or sketch of an invention witnessed so as to corroborate Kelley's engineers until about two weeks after Kelley's same engineers viewed, operated, and disassembled Rite-Hite's MDLthese January sketches were not the earlithe date and provide credible evidence of the date of the invention. Thus, based upon this evidence, the earliest sketches of the Truk Stop device were not made by 52.
- 53. By February 23, 1982, the first prototype of Kelley's Truk Stop restraint was were taken by Kelley specifically for the complete, operating, and ready for testing. Photographs of this prototype (PTX-43) purpose of establishing this date.
- 54. On March 1, 1982, the design of the and tell" demonstration, and by about July 1, 1982, the product was available for intro-Truk Stop product was released at a "show

1055

duction to the representatives and production, shortly after the date projected by Kelley in the fall of 1981 (PTX-32).

had made little progress in its own efforts to come up with a competing device until after its engineers had the benefit of the tested, and dismantled an actual MDL-55. 55. The evidence at trial, both through the testimony of Kelley's personnel and its documentation, shows that Kelley had given a great deal of thought to the question of a product that would compete with Rite-Hite's vehicle restraint, and that Kelley MDL\_55 Dok-Lok brochures and inspected,

dent of Kelley, during a private showing of demonstrated it side by side with Rite-Hite gleking, a Kelley sales representative in Minneapolis in 1981 and 1982, was uncontroverted. That evidence showed the commercial impact of the Rite-Hite Dok-Lok restraints, the need for such device, and the response of Kelley. Mr. Kuhns, Presithe new Truk Stop in the apring of 1982, MDL-55 and explained the relationship be-56. The testimony at trial of Robert Entween them to Mr. Engleking.

#### Kelley Has Failed to Prove That the '847 Patent Is Invalid

shown in the prior art. The Court finds that Kelley has failed to carry forth its burden that the patent is invalid and holds 57. Kelley has asserted invalidity of the claims in suit of the '847 patent, stating that the claimed combination is obvious and that the claims in suit are not invalid.

# The Claimed Invention Is Nonob-

copying, and unexpected results. Based upon the evidence coupled with an analysis tained the difference between the prior art and subject matter claim, (3) determined the level of ordinary skill in the art, and (4) dence of nonobviousness such as long-felt need, commercial success, failure of others, Kelley has alleged that the asserted claims are obvious over the prior art. On this issue the Court has (1) determined the scope and content of the prior art, (2) ascergiven consideration to the objective evi-

of this indicia, the Court finds that the subject matter of claims 1, 2, 3, 8, 12 and 13 are nonobvious

earlier, resulted from the Rite-Hite vehicle restraint program. The '621 patent teaches no more than the '259, '748, or '161 Support, all of which were cited by the patents, which were before the Examiner. 4.282,621 (PTX-1-g), which issued to Anthony, et al., for a Releaseable Locking 4,264,259 (PTX-1-e), issued to Mr. Hipp for 4,267,748 (PTX-1f), issued to Grunewald, et and U.S. Patent 4,208,161 (PTX-1d), issued to Mr. Hipp, et al., for Device For Releasably Securing A Vehicle To An Adjacent Examiner. All of these patents, discussed art references during the trial. Many of and some of them were not. With respect the Court finds that none of these are more Erlandsson's testimony that U.S. Patent Device and which was not before the Examiner, is more pertinent than U.S. Patent Releaseable Locking Device; U.S. Patent al., for a Releasable Locking Mechanism; these references were before the Examiner to the references not before the Examiner, pertinent than the art before the Examiner. Along these lines, the Court rejects Mr. 59. Kelley set forth a number of prior

and pawl references shown in a montage es is based upon Kelley's misapprehension of the claims as being specific to a ratchet and pawl as an element of the claimed combination. None of the claims is limited contended it had invented a ratchet and pawl. Kelley put in no evidence that any of the ratchet and pawl references suggested use of that element in the claimed combination to secure a parked vehicle against a stationary upright structure such as a dock wall. Thus, none of the prior art items in DTX-202 is of significance in the 60. The plethora of references set forth by Kelley in general fall into two categories. The first category contains ratchet (DTX-202). The reliance on these referencto a ratchet and pawl, and Rite-Hite never issue of obviousness.

61. The second category of prior art is that shown in DTX-201. These references all relate to some type of vehicle restraint,

skilled in the art at the time of the inven-RITE-HITE CORP. v. KELLEY CO., INC. Cite as 629 F.Supp. 1042 (E.D.Wis. 1986)

out none shows the claimed combination of the '847 patent. The closest references to the asserted '847 patent claims are the None of those references suggest going to nook. Nor do those references suggest a work of Rite-Hite's development team. contal hook shank mounted to a follower to a vertical support or with a biased slide and retaining means for the vertically movable slide, a vertically movable hook in the slide fixed in the slide, all vertically movable as the system of the '847 claims with a horiand retaining means to support the hook a unit to provide float.

the combination of elements set forth in the claims of the '847 patent asserted here thereover. While each single element of protection on what they called the Panic Hite's '259, '161, and '748 patents showing the '847 claims unobvious and patentable the claims may have precedent in the prior hazard, including injuries and even deaths, as early as 1966 when they sought patent The examiner had the best of these references before him; that is, Rite-The Examiner was correct in finding and inexpensive solution to a very long-felt need in the dock equipment industry and ley was well aware of the serious safety from inadvertent and accidental withdrawals of trucks from loading docks and the need for a practical solution since at least pivotally mounted hooks on a vertical wall. art, as is true in most mechanical patents, was novel. It proved a workable, efficient, was not suggested in any reference. Kel-Stop (DTX-183-8).

the art, usually managers, might have an engineering degree. With this definition, level of ordinary skill in the art in the early plaintiffs' technical expert witness Professor John Strait who stated that the level of skill is relatively low, and that a person with several years of design experience in the steel and machinery art would typify the ordinary skill. A few of the workers in the Court finds that the claimed combina-tion would not have been obvious to one There was some disagreement between the parties at the trial about the 1980's. The Court adopts the definition of

Even if this Court adopts Kelley's definition of the higher level of skill (a qualified engineer) suggested by Kelley's expert witness, Mr. Erlandsson, this Court finds that this invention would have been nonobvious. 64.

65. This finding of nonobviousness is the '847 patent provided a solution to the made the invention and Rite-Hite began to sell the invention of the '847 patent as the Model MDL-55 vehicle restraint. Before that time, Kelley concentrated its efforts cal restraints, and even when charged with coming up with physical restraints, it was further supported in light of the objective long-felt need that escaped the industry, including Kelley, until after Hipp and Hahn on communications devices and not physievidence of unobviousness. For example, unable to do so.

ing the Rite-Hite MDL-55 literature in the subsidiary on December 30, 1981. Kelley's Tuf-Seal, were inspecting, operating, photoweeks thereafter, the Kelley documentary records show the first evidence of the deprototype, which was made in February of 66. A further indicium of nonobviousness is copying or imitation by competitors. In this case, Kelley was not able to come up with a solution or a construction for a physical restraint on its own prior to receiv-55 installed on the dock of its Tuf-Seal officers and engineers, within hours after the Rite-Hite installation was completed at graphing, disassembling, and measuring Within a few velopment of the truck restraint that bedrawing (PTX 57) and other subsequent indications of the construction of the first came the Truk Stop, including a witnessed 1982 (PTX 43). Such evidence further suplate summer of 1981 and having the MDLports the argument of unobviousness. the Rite-Hite MDL-55.

passed by the '847 patent is one significant 67. As mentioned earlier, while it is never possible to relate commercial success to one specific cause, the invention encomcause that has resulted in the commercial success of both the MDL-55 of Rite-Hite and the Kelley Truk Stop.

Kelley claims that the commercial providing increased float as compared to the structure of the '847 patent. Similarly, the fact that Rite-Hite's commercial product represents an improvement that came after the basic invention of the '847 patent closure of the '847 patent. It is, of course, axiomatic in the patent law that one cannot avoid infringement of a basic patent, such as the '847 patent, by making certain improvements on the basic structure, such as the addition of a motor drive or means for in no way detracts from the commercial Rite-Hite product, the MDL-55, also incorporated an improvement over the basic dissuccess of the patented structure.

#### Kelley Has Failed to Prove Antici-فہ

er it alleged an anticipation under any section of 35 U.S.C. § 102. The Court finds that Kelley has failed to carry forth its Kelley has also alleged that the asalthough its evidence was vague on whethserted claims are shown by the prior art, burden on this allegation. 69

distinctly from the claimed invention that it They are far afield and offer no duced by Kelley anticipates the claimed invention. Even if these devices include each of the claimed mechanical elements, tion, and operation vary so drastically and cannot be found that these devices show that prior art, such as U.S. Patent 621,858 Ford Automobile Jack and operating manual, show the claimed combination in the asserted claims. Yet these prior art desuggestion of an apparatus for restraining right structure. No single reference introtheir structure, interrelationship, applicaechnical expert, Mr. Erlandsson, stated issued to Schwarz for Easel and a 1977 vices do not relate to the patented invena parked vehicle against a stationary up-70. In particular, at the trial, Kelley's the claimed combination. tion.

# 1. Kelley's Infringement of the '847 Pat-

71. Infringement of Claims 1, 2, 3, 8, 12, and 13 of the '847 patent by the Kelley

ticular, Professor Strait showed how the the drawings of the '847 patent (PTX-10 commercial success in the marketplace fessor Strait, explained the relationship at 10) and Kelley's device (PTX-14) as well as demonstrations of various models. In parasserted claims of the '847 patent read on the Model MDL-55 (PTX-123) (the improved Model MDL, which has met with through sales of over 1,800 units), and Kelmark "Truk Stop" was proven at trial. To broken down at trial and compared with features and elements of the Kelley device. Rite-Hite's technical expert witness, Prothe trial with the assistance of colored charts of the '847 patent drawings (PTXand PTX-10-A), the Model MDL (PTX-19), facilitate reading these claims, they were vehicle restraint marketed under the tradeley's Truk Stop device (PTX-21).

ley's product and in the form as relied upon by the plaintiffs at trial in PTX 11, 12, and 72. Claims 1, 2, 3, 8, 12, and 13 of the '847 patent, as asserted against Kel-13, are as follows:

#### CLAIM 1

stationary upright structure, said device A releasable locking device for securing a parked vehicle to an adjacent relatively comprising

(a) a first means mountable on an ex-

posed surface of the structure,

ment relative thereto between operative (b) a second means mounted on said first means for substantially vertical moveand inoperative modes,

when in an inoperative mode being a tion of said second means when in an (c) the location of said second means operative mode and in a non-contacting predetermined distance beneath the locarelation with the vehicle,

(d) and third means for releasably retaining said second means in an operative

mined distance from said first means and the exposed surface of the structure, one (e) said second means including a first section projecting outwardly a predeter-

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end of said first section being mounted dent movement relative thereto along a on said first means for selective indepen-

The device of claim 1 wherein the third

means automatically retains the second

means in an operative mode.

The device of claim 1 wherein CLAIM 12

path, and a second section extending anand being spaced outwardly a substantially fixed distance from said first means and the exposed surface of the

predetermined substantially vertical

gularly upwardly from said first section

(a) the first means includes elongated upright guide means,

(b) and the first section of the second means includes guide-engaging elements carried on the one end of said first section and continuously maintaining said first section in an outwardly projecting relation with respect to said first means. CLAIM 13

> (f) said second means, when in an operaly engage a portion of the parked vehicle

structure,

tive mode, being adapted to interlocking-

disposed intermediate to second section

and said first means,

A releasable locking device for securing a parked vehicle to an adjacent upright structure, said device comprising

erative mode, being adapted to be in a

(g) said second means, when in an inop-

lowered nonlocking relation with the

parked vehicle.

(a) a first means having a first member fixedly mountable on the structure and a relative movement, said second member second member mounted on said first member for limited substantially vertical being upwardly biased to assume a normal rest position,

(a) the first means includes a first mem-

The device of claim 1 wherein

CLAIM 2

exposed surface and a second member slidably mounted on said first member for limited independent substantially ver-

tical relative movement,

ber fixedly mountable on the structure

(b) said second member being upwardly position with respect to said first mem-

biased to assume a normal elevated rest

(b) second means mounted on said first means for substantially vertical movement relative thereto between operative and inoperative modes,

(c) the location of said second means when in an inoperative mode being a predetermined distance beneath the location of said second means when in an operative mode,

ing said second means in an operative (d) and third means for releasably retainmode,

> downwardly from said normal rest position only when a depressive external force exerted on said second means,

while the latter is retained in an operative mode, exceeds the biasing force ap-

plied to said second member.

(c) said second member and said second and third means being movable as a unit

ment carried by the second member of said first means, and a complemental secmeans, said first and second elements coacting with one another to prevent being guided thereby for selective relastantially vertical path, and a second sec-(e) said third means having a first eleond element carried by said second movement of said second means from an (f) said second means including a first section projecting outwardly from said first means, one end of said first section being connected to said first means and tive movement in a predetermined suboperative mode to an inoperative mode,

> ment carried by said second means and coacting with a complemental second element carried by the second member of said first means to prevent movement of said second means from an operative

mode to an inoperative mode.

(a) the third means includes a first ele-

The device of claim 2 wherein

CLAIM 3

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TRUK

'847 PATENT

RITE-HITE COLOR

KELLEY COLOR

CLAIM PART

Frame

Frame Slide

Light Blue Dark Blue

Member

First

Second Member

FIRST MEANS

Slide

Orange Brown

tion extending angularly upwardly from said first section and being spaced outwardly from said first means,

engage a portion of the parked vehicle disposed intermediate the second section (g) said second means, when in an operative mode, being adapted to interlockingand said first means,

(h) said second means, when in an inoperative mode, being adapted to be in a nonlocking relation with the parked ve(i) the second member of said first means being movable downwardly from the normal rest position only when a depressive external force exerted on said second means, while the latter is retained in an operative mode, exceeds the biasing force applied to said second member.

patent are infringed by Kelley's device. Strait Hite's technical expert) and Mr. Erlandsson Kelley's Vice President of Engineering and its technical expert), the Court finds that Claims 1, 2, 3, 8, 12, and 13 of the '847 73. Upon hearing all of the evidence presented at the trial, including the expert sestimony of both Professor Strait (Rite-

position where it will secure the vehicle hiele to an adjacent upright structure, such as a dockwall, has a frame vertically extending up the dockwall and secured to the exposed surface of the wall, a hook assembly slidably mounted in that frame for vertical movement between an upper operative showed that the Kelley device, which is directed to a releasable locking device or vehicle restraint for securing a parked ve-74. In particular, Professor

versible motor to retain the hook in its upper operative position but to selectively cal hook portion, and a follower that moves in the frame between the upper operative ley device also has a means in the form of a permit the hook to be released to its inoper-The hook assembly of the Kelley device and lower inoperative positions. The Kelrack and pinion which operates with a reagainst the wall and a lower inoperative position free of the vehicle so that the vehicle can be driven away from the wall. also has a horizontal shank portion, a vertiative position.

will move downward when subject to the downward "float." Upward float can also be accommodated by the Truk Stop unit. When the ICC bar moves upward, the motor is activated and the hook moves up with the hook from an operative to an inoperaforce of a truck being loaded providing Strait showed that the Truk Stop unit also includes a slide as a part of the fixed frame, which is urged upwardly by a biasing force in the form of a gas spring and the rack secured to it. A coacting complemental part of the retaining means, the the rack to prevent accidental movement of tive position. As a result, the Truk Stop 75. In addition, at the trial Professor has one part of the locking means, namely, pinion, is carried by the hook and engaged the ICC bar.

76. During Mr. Erlandsson's cross-examination, the following chart (PTX-136) was developed with respect to Claims 1, 2, 3, 8, and 12:

respect to interpreting means plus function language.

Pinion & Worm

Pawl

Green

Dark Red

Element

First

Element

Second

THIRD MEANS

Rack

Ratchet

Purple

Light Red

Spring

Spring

Blue

Orange

BLASING FORCE

Hook Assembly

Hook Assembly

Yellow

Yellow

SECOND MEANS

specification and equivalents that perform the stated function. The rack and pinion is its operative position. Palumbo v. Don-This is not the proper test. Rather, to interpret these functional claims, reference must be made to the last paragraph of 35 U.S.C. § 112. That paragraph states that the patentee is entitled to a claim covering the means described in the interchangeable with a ratchet and pawl and is the clear equivalent of a ratchet and Joy Co., 762 F.2d 969, 976 (Fed.Cir.1985). To hold otherwise would nullify § 112. D.M.I., Inc. v. Deere & Co., 755 F.2d 1570, pawl for releasably retaining the hook

and pawl. To limit the broader claims, in the way Kelley asked this Court to do, guage, is buttressed by the fact that other 79. This finding, with respect to the scope of the "means plus function" lanclaims in the '847 patent, which are not asserted here, specifically recite a ratchet would go against a rational construction of the claims.

1574 (Fed.Cir.1985).

Furthermore, the claims are not limited to a manual device because only one of

This chart shows the direct correlation of the '847 patent claim elements and the Fruk Stop elements. 77. The Truk Stop device also has a ing means. Kelley argued at the trial that its use of a rack and pinion, where the avoids infringement of the asserted claims Hite patent is to provide a device that does not require an electrical power source to operate, the claims are thereby limited to because the third means for releasably retaining the hook in an operative mode as ey device. Kelley argued further that bemanual devices. The Court does not find reversible motor that is part of the retainpinion is "driven" up the rack by a motor, recited in the claims did not cover the Kelcause a secondary objective of the Riteeither of Kelley's arguments persuasive.

asserted here are not, in any way, limited to a ratchet and pawl. In fact, "means upply the doctrine of equivalents test with olus function" language is used which is means for releasably retaining said second trial, Kelley's expert witness continued to 78. First, the broader claims that are directed to a desired result, i.e., "third means in an operative mode." During the

such a limitation cannot be read into the tion is to provide a device that is free of an electrical source. Nonasserted claims specifically recite manual operation, and thus many objectives set forth in the specificaasserted claims.

in substantially the same way to achieve substantially the same result as the trine of equivalents. This is so because the Kelley device performs the same function claimed subject matter of the '847 patent. the Court finds that Kelley's device infringes the asserted claims under the doc-81. Even without literal infringement,

counsel on the probability or possibility of Kelley never obtained an opinion from its that did not use a pivoting hook in order to The '847 patent did not issue until almost a year after Kelley began to market its Truk an infringement search beyond the six patent numbers that Kelley found listed on the Rite-Hite device's serial number tags. Nor did Kelley ever cause its counsel to make an infringement search to determine what patents might exist or might be infringed its Truk Stop restraint. Furthermore, Hite patents then issued were limited to a Stop truck restraint. Kelley never made development of its truck restraint, it requested its patent counsel to make a search restraints, and Kelley received a written ley proceeded to develop a truck restraint avoid conflict with the Rite-Hite patents. opinion from counsel that all of the Ritepivoting hook. Based on this opinion, Kel-82. At the time Kelley undertook the of all Rite-Hite patents dealing with truck patents issuing on the MDL-55.

### 3. The Unfair Competition Claims and Counterclaims

motion picture having been found to be misleading in its depiction of Kelley's and liminarily enjoined Kelley from using its Truk-Stop promotional motion picture, that 83. On March 16, 1984, the Court pre-Rite-Hite's truck restraining devices.

motion picture off the market, has replaced it with a film loop which is acceptable to Based on the testimony of Robert Kuhns that Kelley has taken the original

troduced its first Dok-Lok restraint. The

straint art or industry when Rite-Hite in-

this case, there was no real vehicle

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finds there is no need for any injunctive this Court found misleading, the Court relief at this time and that the preliminary or using the original motion picture that Rite-Hite, and has no intention of showing injunction may be dissolved.

lish any need for other injunctive relief or terclaims of unfair competition against each other. This evidence failed to estabmoney damages on the part of either party. 85. At trial, the parties introduced evidence on their respective claims and coun-

# II. CONCLUSIONS OF LAW

# K. Source of Applicable Law

Appeals and the Court of Claims. South. courts, the Court of Customs and Patent 86. This court has jurisdiction over the parties and the subject matter, and venue is proper. The law applicable here is that of the United States Court of Appeals for the Federal Circuit and its predecessor Corp. v. United States, 690 F.2d 1368, 1369, 215 U.S.P.Q. 657 (Fed.Cir.1982)

Perkin-Elmer Corp., 732 F.2d at 894; Jones, 727 F.2d at 1527, 1529-31; Environ-

of others, copying, and unexpected results.

claimed invention and the prior art; and (4) long-felt needs, commercial success, failure

made into: (1) the scope and content of the prior art; (2) the level of ordinary skill in the pertinent art at the time the invention was made; (3) the differences between the objective evidence of nonobviousness, e.g.,

## L. Validity of Patents

have been obvious as a whole to a person

of ordinary skill in the art in the spring of

U.S. 1043, 104 S.Ct. 709, 79 L.Ed.2d 173 (1984). The invention of Claims 1, 2, 3, 8, 12, and 13 of the '847 patent would not

867-69 (Fed.Cir.1983), cert. denied, 464

713 F.2d 693, 695-97, 218 U.S.P.Q. 865,

mental Designs, Ltd. v. Union Oil Co.,

den of proving facts establishing invalidity party asserting invalidity. Perkin-Elmer Corp. v. Computervision Corp., 732 F.2d 888, 894, 221 U.S.P.Q. 669, 674 (Fed.Cir. 1984), cert. denied. — U.S. —, 105 S.Ct. novelty, nonobviousness, and utility-each of which are presumed to be present. Structural Rubber Products Co. v. Park Rubber Co., 749 F.2d 707, 714, 223 U.S. tory presumption of validity places the burby clear and convincing evidence on the this presumption attaches to each claim independently of the other claims. Jones v. 1021, 1024 (Fed.Cir.1984). Moreover, this presumption encompasses presumptions of P.Q. 1264, 1269 (Fed.Cir.1984). This statu-Section 282 of the United States patent laws (35 U.S.C. § 282) explicitly states that a patent shall be presumed valid, and Hardy, 727 F.2d 1524, 1528, 220 U.S.P.Q. 187, 83 L.Ed.2d 120 (1984).

that subject matter pertains at the time the

invention was made. Perkin-Elmer Corp.,

to one of ordinary skill in the art to which

would not have been obvious "as a whole"

Failure to consider the claimed invention

732 F.2d at 894; Jones, 727 F.2d at 1529. "as a whole" would be an error of law. W.L. Gore & Associates Inc. v. Garlock,

eration of whether the invention would or

[1] 90. Section 103 requires the consid-

The Invention As a Whole Com-

pared to the Prior Art

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"art" consisted of the work of Rite-Hite's development team as exemplified in Rite-

Hite's earlier patents. the invention be nonobvious, 35 U.S.C. 88. It is a condition of patentability that

Rubber

Structural

nonobviousness.

§ 103. The statutory presumption of pat-

M. Nonobriousness

ent validity carries with it a presumption of

383 U.S. 1, 17, 86 S.Ct. 684, 693-94, 15 the Court mandated, in determining obviousness/nonobviousness under § 103 of the patent laws, that factual inquiries be

89. In Graham v. John Deere & Co., L.Ed.2d 545, 148 U.S.P.Q. 459, 467 (1966),

Products Co., 749 F.2d at 714.

in every case, and often one or more weight in a particular case. Environmenprior art solution to those problems; (4) the Not all of these factors need be considered factors may predominate or are given more [2] 91. Factors that are considered in determining the level of "ordinary skill in level of one of ordinary skill; (2) the types of problems encountered in the art; (3) the rapidity with which innovations are made; the art" may include: (1) the educational and (5) the sophistication of the technology. tal Designs, 713 F.2d at 696-97.

in the law for treating combinations of old 92. Additionally, although it is proper to that difference may serve as one element in "difference" may appear to be slight, but it can be the key to success and advancement in the art. Furthermore, it is irrelevant in determining obviousness that all or all other aspects of the claimed invention are well known, in a piecemeal manner, in the art, since virtually every patent can be described as a "combination patent" or a 'combination" of old elements. Jones, 727 F.2d at 1528. There is absolutely no basis elements differently in determining patentability. Fromson, 755 F.2d at 1555-56. claimed invention and the prior art, because determining the obviousness/nonobviousness issue, it is improper merely to considnote the difference existing between the er the difference as the invention.

tage to be derived from combining the the disclosures or teachings of the prior art tion obvious unless the art also suggested the desirability of the combination or the teachings. Fromson, 755 F.2d at 1556; In re Sernaker, 702 F.2d 989, 995-96, 217 [3] 93. Moreover, the mere fact that can be retrospectively combined for purposes of evaluating the obviousness/nonobviousness issue does not make the combinainventor's beneficial results or the advanperato, 486 F.2d 585, 587, 179 U.S.P.Q. 730, U.S.P.Q. 1, 6-7 (Fed.Cir.1983); In re

Inc., 721 F.2d 1540, 220 U.S.P.Q. 303, 309

105 S.Ct. 172, 83 L.Ed.2d 107 (1984). In

(Fed.Cir.1983), cert. denied, - U.S. ---,

732 (CCPA 1973). There is no such suggestion in this case.

GMBH v. American Hoist and Derrick Co., 730 F.2d 1452, 221 U.S.P.Q. 481 (Fed. Cir.1984), a patent for hydraulic scrap shears was held valid and nonobvious even nation of features previously used in two separate prior devices. The Court ex-94. In Lindemann Maschinenfabrik though it specifically stated in the specification that it disclosed and claimed a combiplained:

gether suggests the claimed invention as the claimed machine possessed "another known procedure operating in a known manner to produce a known result" or its conclusion that Lindemann (the inventor) knew...that a small sidewall ram could most economically process large scrap. Nothing in the references alone or toa solution to the problem of crushing rigidly massive scrap. There was nothing whatever of record, therefore, to support the district court's statement that Lindemann, 730 F.2d at 1462.

fact remains that the combination of these elements for the purpose as set forth in the ed in the claims of the '847 patent were in existence at the time of the invention, the claims is nowhere suggested and is a nonobvious advance in the art of vehicle re-95. Thus, even if all the elements recit-

#### The Advance in the Art Provided by the Invention in Suit فہ

mons Fastener Corp. v. Illinois Tool Works, Inc., 739 F.2d 1573, 1575-76, 222 denied, - U.S. -, 105 S.Ct. 2138, 85 L.Ed. 496 (1985). In fact, such evidence of the objective considerations must be considered as part of all the evidence in all cases. In re Piasecki, 745 F.2d 1468, 1471, The objective evidence of nonprobative, and revealing evidence available to aid in reaching a conclusion on the obviousness/nonobviousness issue and is of substantial significance in this case. Sim-U.S.P.Q. 744, 746-47 (Fed.Cir.1984), cert. obviousness discussed by the Court in Graham may be the most pertinent, cogent,

223 U.S.P.Q. 785 (Fed.Cir.1984). These tests include:

(1) Did the patented invention fulfill a long-felt need in the industry to which it (7th Cir.1976); Rex Chainbelt, Inc. v. General Kinematics Corp., 363 F.2d 836, 337, 150 U.S.P.Q. 319, 320 (7th Cir. v. American Hospital Supply Corp., 534 F.2d 89, 93, 190 U.S.P.Q. 397, 400-01 applied? Ortho Pharmaceutical Corp.

(2) Did others try and fail to meet the need that the invention ultimately satisfied?

Co. v. Anchor Hocking Glass Corp., 362 F.2d 123, 124, 150 U.S.P.Q. 1, 2 (7th (3) Did the patented invention meet with substantial success upon its intro-Inc., 363 F.2d at 337; Continental Can duction to the market? Rex Chainbelt,

AMP, Inc. v. Molex Products Co., 329 F.Supp. 1364, 1371, 170 U.S.P.Q. 2, 7 (4) Did the accused infringer recognize that the invention was truly meritorious? (N.D.III.1971).

97. Evidence may often establish that an invention which appeared at first blush to have been obvious was not in view of the secondary considerations. Fromson, 755 F.2d at 1556. When a structure such as the '847 patent goes undiscovered for years and then enjoys substantial commercial success, there is strong evidence of unobviousness.

made, no known device accomplished the 1306, 186 U.S.P.Q. 468 (7th Cir.1975). At the time Rite-Hite's claimed invention was failed. Atlas Powder Co. v. E.I. DuPont 224 U.S.P.Q. 409 (Fed.Cir.1984); Lang v. Prescon Corp., 545 F.Supp. 933, 945-46, One cannot escape the fact that the 847 patent satisfied a long and widely-felt ers, including Kelley prior to copying, had de Nemours & Co., 750 F.2d 1569, 1574-76, 217 U.S.P.Q. 839 (D.Del.1982); Tracor, Inc. v. Hewlett-Packard Co., 519 F.2d 1288, solutions to dock hazards by preventing vehicle separation eluded the industry for years. Rite-Hite's invention claimed in the need, and Rite-Hite succeeded where oth-98.

## RITE-HITE CORP. v. KELLEY CO., INC. Cite as 629 F.Supp. 1042 (E.D.Wis. 1986)

same results in a similar manner. Riteticular need in a unique manner. That is Hite's invention, in fact, satisfied this parinvention. Jones, 727 F.2d at 1531.

Hite's invention is that it uses a simple discloses a ratchet and pawl as one means But none of the asserted claims recite a 99. One of the advantages of Riteratchet and pawl or even just hook retaincombination went unrecognized for years fore Rite-Hite, even with the art before him, ever thought of the combination of the means to maintain the restraint in the elevated, operative position. The '847 patent to retain the hook in its upper position. ing means. Rather, a combination of elements coacting in a novel and unobvious by the industry, though ratchets and pawls, as well as racks and pinion gears, were well known. This supports the unobviousness of the patent in suit. Jones, 727 F.2d as an automobile jack, as well as its own manner are recited. The advantage of the at 1530. If anything, Kelley's reliance on patent for its Panic Stop using ratchet and pawl combinations, shows that no one beearlier devices in the vehicle industry, such '847 patent.

invention by an alleged infringer is strong prior to having access to Rite-Hite's vehicle cally moving hook and other elements [5] 100. The imitation of the patented evidence of what it thinks of the patent in suit and is persuasive of what the rest of claimed in the '847 patent provide additionthe world ought to think. Anderson Co. v. Sears, Roebuck & Co., 165 F.Supp. 611, 623, 119 U.S.P.Q. 236, 244 (N.D.III.1958), 121 U.S.P.Q. 161 (7th Cir.1959). Here, Kelley's failure to develop a vehicle restraint restraint and Kelley's adoption of the vertial evidence of unobviousness. Lang, 545 F.Supp. at 945-46. In fact, Kelley's vehicle restraint, which was identified by Kelley's personnel as "Kelley's version of the Dok-Lok" (PTX-36), was nonexistent until Kelley obtained literature relating to Rite-Hite's vehicle restraint and actually inspected, disassembled, and photographed the Rite-Hite product. General Monitors, modified on other grounds 265 F.2d 755,

F.2d 642, 645, 96 U.S.P.Q. 281 (4th Cir. 1953), cert. denied, 345 U.S. 996, 73 S.Ct. deed, the imitation and copying by Kelley Inc. v. Mine Safety Appliances Co., 211 U.S.P.Q. 1126, 1140 (C.D.Cal.1981). Inwas strong evidence that Kelley believed that invention lay in the Rite-Hite product. Ackermans v. General Motors Corp., 202 1139, 97 L.Ed. 1403 (1953).

1,800 MDL-55 restraints falling within the claimed configuration. Fromson, 755 F.2d vention has also had considerable commerasserted claims of the '847 patent (PTX 81). cause of this commercial success is the go Dynamic Industries, 201 U.S.P.Q. 25, 101. A further indicium of nonobviousness was the evidence that Rite-Hite's incial success. Rite-Hite has sold well over There is no question that a substantial at 1556-58; Magnavox Company v. Chica-27 (N.D.III.1977).

N. The Prior Art Does Not Show the Claimed Invention

tion. Kalman v. Kimberly-Clark Corp., 713 F.2d 760, 771 (Fed.Cir.1983), cert. denied, 465 U.S. 1026, 104 S.Ct. 1284, 79 claim is anticipated under 35 U.S.C. § 102, a party must demonstrate identity of inven-L.Ed.2d 687 (1984). The determination that [6,7] 102. To assert that a patent a claimed invention is "anticipated" under § 102 is a factual determination. Lindemann Maschinenfabrik GMBH v. American Hoist & Derrick Co., 730 F.2d 1452, 1458 (Fed.Cir.1984).

ied in a single prior art reference, or that less all of the same elements are found in [8] 103. One who seeks such a finding of anticipation must show that each and known or embodied in a single prior art device or practice. Lindemann Maschinenfabrik GMBH, 730 F.2d at 1458. "Unexactly the same situation and united in the every element of the patent claim is found, as arranged in the claim, either expressly described or implicitly described under appropriate principles of inherency, in a single prior art reference, or that the claimed invention was previously known or embodthe claimed invention was previously

Inc., 546 F.Supp. 340, 350 (N.D.III.1982), aff'd, 743 F.2d 1227 (7th Cir.1984), cert. denied, - U.S. --, 105 S.Ct. 2345, 85 same way to perform an identical function, there is no anticipation." National Business Systems, Inc. v. AM International, L.Ed.2d 861 (1985).

# Kelley's Infringement of the '847 Pat-

ponderance of the evidence. This burden extends to infringement under the doctrine ment. Hughes Aircraft Co. v. United States, 717 F.2d 1351, 1361, 219 U.S.P.Q. The United States patent laws state that whoever without authority makes, uses, or sells any patented inventerm of the patent infringes the patent. 35 U.S.C. § 271(a). The patent owner has the burden of proving infringement by a preof equivalents as well as to literal infringetion within the United States during the 473 (Fed.Cir.1983). [9] 104.

raises at least two questions: (1) what is patented, and (2) has what is patented been made, used, or sold by another. The first is a question of law; the second is a question of fact. SSIH Equipment S.A. v. U.S. International Trade Commission, P.Q. 1137, 1140 (Fed.Cir.1983). In this case, Rite-Hite obtained a patent claiming a vehicle restraint having a combination of The Truk Stop device, made and sold by [10, 11] 105. The issue of infringement 718 F.2d 365, 376, 218 U.S.P.Q. 678, 688 (Fed. Cir. 1983); Fromson v. Advance Offset Plate, Inc., 720 F.2d 1565, 1569, 219 U.S. elements performing recited functions. Kelley, infringes the asserted claims.

## a. Literal Infringement

product falls literally within the claim when infringement is made out, and that is the [12] 106. If an allegedly infringing the words are given their proper meaning, end of the inquiry. Graver Tank and Mfg. Co. v. Linde Air Products Co., 339 U.S. 2. In a patent infringement action, patent claims measure the invention and define the boundaries of patent protection. Reese v. Elkhari

607, 70 S.Ct. 854, 855-56, 94 L.Ed. 1097, 85 U.S.P.Q. 328 (1950).

tin v. Barber, 755 F.2d 1564, 1567, 225 tion.. United States v. Adams, 383 U.S. 39, 49, 86 S.Ct. 708, 713, 15 L.Ed.2d 572, 148 U.S.P.Q. 479, 482 (1966). Each claim must be considered as defining a separate invenor the patentee's commercial device. Marclaims of a patent are to be construed in light of the specification, and both are to be tion. Jones, 727 F.2d at 1528. In construing or interpreting a claim, a whole host of facts (e.g., patent disclosure, the prosecution history in the Patent and Trademark read with a view to ascertaining the inven-Office, the prior art and comparison with other claims) may be considered. Graham, 383 U.S. at 32-33, 86 S.Ct. at 701; From-[13-15] 107. The question of infringement is resolved by comparing the accused device with the claims of the patent, not with the structure described in the patent U.S.P.Q. 233, 235 (Fed.Cir.1985). son, 720 F.2d at 1569-71.

# (1) "Means Plus Function" Claims

the '847 patent utilize "means plus function" language. Title 35 U.S.C. § 112 is used to interpret these functional claims [16] 108. The independent claims in

An element in a claim for a combination performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall structure, material or acts described in may be expressed as a means or step for be construed to cover the corresponding the specification and equivalents thereof. [Emphasis added.]

To interpret the statute as limited to a tion would be to nullify that provision of \$112. The patentee's claim covers all fication for performing the stated function particular means set forth in the specificameans the structure described in the specicombinations which utilize as the stated and also all combinations that utilize any

Welding & Boiler Works Inc., 447 F.2d 517, 171 U.S.P.Q. 129 (7th Cir.1971).

# Cite as 629 F.Supp. 1042 (E.D.Wis. 1986)

structure which is the equivalent of that described structure insofar as it performs the stated function. D.M.I., Inc. v. Deere & Co., 755 F.2d 1570, 1574 (Fed.Cir.1985). F.2d 969, 975 (Fed.Cir. May 20, 1985), recognized that a "means plus function" claim is construed "to cover both the disclosed forming the stated function. The Court in Palumbo added that an important factor in The Court in Palumbo v. DonJoy Co., 762 structure and equivalents thereof" for perthe determination of equivalents is whether persons reasonably skilled in the art would know of the interchangeability of an ingredient not contained in the patent with one that was. Palumbo, at 977.

factors are weighed, the scope of the "means" claim may be determined, and the language of the claim, (2) the patent specification, (3) the prosecution history of [17, 18] 109. In construing such a claim, a number of factors may be considered: (1) the patent, (4) other claims in the patent, and (5) expert testimony. Once these alent of the described embodiment is a tion of the Taylor, et al., patent makes it whether the Kelley device is a § 112 equivquestion of fact. Palumbo, at 975-76. Here, looking to the prosecution history of the '847 patent, the amendments to the clear that the scope of equivalents for the claims and description following the citathird means is broad.

[19] 110. In addition, Kelley cannot escape infringement by the mere fact that its Truk Stop restraint is more or less efficient or performs additional functions or adds features or is an improvement. Amstar Corp. v. Envirotech Corp., 730 F.2d 1476, 1481-82, 221 U.S.P.Q. 649, 653 (Fed.Cir. 1984), cert. denied, — U.S. —, 105 S.Ct. 306, 83 L.Ed.2d 240, 224 U.S.P.Q. 616 v. MTD Products, Inc., 731 F.2d 840, 848, 221 U.S.P.Q. 657 (Fed.Cir. 306, 224 U.S. P.Q. 616 (1984); Radio Steel & Manufacturing Co. v. MTD Products, Inc., 731 F.2d 840, 848, 221 U.S.P.Q. 657 (Fed.Cir.1984), than the subject matter Rite-Hite claimed, (1984); Radio Steel & Manufacturing Co. 83 L.Ed.2d 62 (1984); Allas Powder Co.,

750 F.2d at 1579-81. Nothing in the claims of Rite-Hite's patent limit the invention to a manual device or one with communications claims asserted here cannot be construed to [20] 111. Furthermore, the broader apparatus.

be limited to a ratchet and pawl as the "third means," or to manual operation. This law is applicable here because Claims 5, 6, and 7 of the '847 patent, which are not row claim limitations cannot be read into asserted, recite that the third means inand 9 recite manual operation. These narcludes a ratchet and pawl, and Claims 4 the broader claims to avoid infringement. D.M.I., 755 F.2d at 1574.

# b. Doctrine of Equivalents

[21, 22] 112. Kelley cannot avoid a finding of infringement by arguing that its device falls outside a literal reading of the claims of the '847 patent. Although the claims of a patent are the measure of the Graver Tank and MGs. Co. v. Linde Air Products Co., 339 U.S. 605, 608, 70 S.Ct. 854, 856, 94 L.Ed. 1097, 85 U.S.P.Q. 328 breadth to the application of claim lanprotected invention, the judicially created "doctrine of equivalents" adds latitude and guage in order to prevent the infringer from perpetrating "a fraud on a patent." (1950). The doctrine of equivalents is designed to protect a patentee, such as Ritewho appropriates the invention even if the infringer avoids the literal language of the is in order here because Kelley's device Hite, from an infringer, such as Kelley, claims. As such, a finding of infringement performs the same function in substantially 855-56. Under this doctrine, Rite-Hite's the same way to achieve substantially the same result as the claimed invention, Atlas Powder Co., 750 F.2d at 1579-81; Sanitary Refrigerator Co. v. Winters, 280 U.S. 30, 42, 50 S.Ct. 9, 13, 74 L.Ed. 147 (1929); Graver Tank, 339 U.S. at 607, 70 S.Ct. at claims are infringed by Kelley's imitation even if Kelley did not precisely clone every iteral detail of Rite-Hite's claimed inven-

[23, 24] 113. The range of equivalents which a patent claim is entitled is on a sliding scale depending on the nature of the roil Burner Co., 613 F.2d 547, 555, 205 U.S.P.Q. 494 (5th Cir.1980); Julien v. Go-Cir.1941). The broadest protection is given one of such novelty and importance as to invention. John Zink Co. v. National Aimez & Andre Tractor Repairs, Inc., 438 F.Supp. 763, 766, 196 U.S.P.Q. 224 (M.D.La. 1977), aff'd, 607 F.2d 1004 (5th Cir.1979). has had "significant commercial success" or the patent is of the "pioneer type," the and are not to be limited to the identical 10 S.Ct. at 856; King-Seeley Thermos Co. v. Reynolds Products, Inc., 322 F.Supp. 713, 720 (N.D.III.1970); Chicago Patent Corp. v. Genco, Inc., 124 F.2d 725, 728 (7th Cir.1973), cert. denied, 414 U.S. 1079, 94 patent because it claims a vehicle restraint In particular, when a patented invention means and mode of operation shown in the to "a patent covering a function never before performed, a wholly novel device, or mark a distinct step in the progress of the 483 F.2d 858, 870, 177 U.S.P.Q. 481 (5th S.Ct. 597, 38 L.Ed.2d 485, 180 U.S.P.Q. 1 that functions in a novel manner, unlike patent claims are to be construed liberally patent. Graver Tank, 339 U.S. at 608-09, any of the earlier restraints of Rite-Hite or art." Ziegler v. Phillips Petroleum Co., (1973). The Rite-Hite patent is a pioneer anyone else.

not only to so-called pioneer patents, but Graver Tank, 339 U.S. at 608, 70 S.Ct. at ingly, the claims of a patent are entitled to [25, 26] 114. Broad protection is given bution to an existing art and patents that consist of a combination of old ingredients F.2d at 869. In this instance, because of the significant advance in the art presented that produce new and useful results. 856; Julien, 438 F.Supp. at 766. Accorda range of equivalents commensurate with the scope of the invention. Ziegler, 483 by the Rite-Hite '847 patent and the manifest commercial success, the claims are givalso patents that make a substantial contrien the broadest possible interpretation.

tion. Hughes Aircraft Co., 717 F.2d at 1365-66; Atlas Powder Co., 750 F.2d at 1579-81; Bendix Corp. v. United States, Kelley of a component that may be more cific embodiment of the Rite-Hite patent [27] 115. In addition, the mere use by sophisticated than that disclosed in the spedoes not allow Kelley to escape an appropriate range of equivalents and thereby avoid infringement of the claimed inven-600 F.2d 1364, 1382, 220 Ct.Cl. 507, 204 U.S.P.Q. 617, 631 (1979).

#### Rite-Hite's Right to Recover Prejudgment Interest Д.

[28] 116. In addition to the other relief interest as provided in 35 U.S.C. § 284 in order to prevent the infringer from having the benefit of the use of the money which it would have been paying in royalties. Genrecoverable for infringement of its patent, the patentee should recover prejudgment eral Motors Corp. v. Devex Corp., 461 U.S. 648, 103 S.Ct. 2058, 76 L.Ed.2d 211 (1983).

[29] 117. The asserted claims of the '847 patent are not invalid and are infringed by Kelley by making and selling the Truk Stop vehicle restraint.

#### Q. Multiplied Damages and Attorneys' Fees Are Not Warranted

118. Under 35 U.S.C. § 284, multiplied damages up to three times the amount Court. Kelley's activities here do not warfound or assessed may be awarded by the rant such an award. 119. The activities of Kelley and the circumstances of this case are not sufficiently exceptional to prompt an award of attorneys' fees under 35 U.S.C. § 285.

# III. STAY OF EXECUTION

[30] 120. Kelley has moved for a stay of injunction pending appeal. The motion has the authority to grant a stay condiis technically premature because a notice of appeal has not yet been filed, but the Court tioned on the movant's filing of a notice of appeal within a specified period.

#### SAUNDERS V. STATE OF N.Y. Cite as 629 F.Supp. 1067 (N.D.N.Y. 1986)

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the Court may in its discretion suspend a final judgment granting an injunction if the pending appeal can show: (1) that it is to the litigation; and (4) that a stay is in F.2d 1064, 1065 (7th Cir.1973); Decker v. U.S. Department of Labor, 485 F.Supp. 837, 844 (E.D.Wis.1980). A showing of ab-(2) that unless a stay is granted it will suffer irreparable injury; (3) that a stay would not substantially harm other parties solute probability of success on the merits on appeal need not be made if the injunction would destroy the status quo, irreparably harming the appellant, and granting of party seeking suspension of the judgment likely to prevail on the merits on appeal; the public interest. Adams v. Walker, 488 Under Fed.R.Civ.P. 62(c)

[33] 122. Upon consideration of the out bond should be allowed pending Kelforegoing factors and the affidavit of Kelley which has been submitted in camera, I conclude that a stay of the injunction withley's appeal.

#### ORDER

the plaintiffs for damages, including prejudgment interest, as a result of its inwith them are enjoined from infringing or sale of vehicle restraints sold under the trademark Truk Stop and embodying the claimed vehicle restraint pursuant to 35 U.S.C. § 283, and that Kelley is liable to IT IS THEREFORE ORDERED that the cers, employees, agents, and those in privi-U.S. Patent 4,373,847 by the manufacture defendant Kelley Company, Inc., its offi fringement.

ed pursuant to Fed.R.Civ.P. 62(c), but furorder unless a notice of appeal is filed IT IS FURTHER ORDERED that Keldays of the filing date of this decision and ley's motion for a stay of the above-described injunction pending appeal is grantther, this stay shall expire within thirty within that period.

# Edgar SAUNDERS, Plaintiff,

Richard Crist, individually and in his York, Michael Cryan, individually and The STATE OF NEW YORK, the Division York, the County of Rensselaer, the ment, Eugene Eaton, Individually and Rensselaer County, Emmanuel Ned, individually and in his capacity as an Sheriff's Department, William Pokeda, individually and in his capacity as an investigator in the Rensselaer County Sheriff's Department, Various Employees of the Rensselaer County Sheriff's Department, Who are at this Time, Unknown, individually and in their official capacities as members of the Renscapacity as an investigator in the Diviin his capacity as an investigator in the New York, Gerald Looney, individually the State of New York and Various Employees of the Division of State Poally and in their official and/or superof State Police of the State of New Rensselaer County Sheriff's Departin his capacity as Sheriff of Rensselaer County, Robert Krogh, individually and in his capacity as Under-Sheriff of investigator in the Rensselaer County selaer County Sheriff's Department, sion of State Police of the State of New Division of State Police of the State of and in his official capacity as an employee of the Division of State Police of lice of the State of New York, individurisorial capacities as employees of the Division of State Police of the State of New York, Defendants.

eral Bureau of Investigation, 595 F.2d 889

(1st Cir.1979).

the stay will cause only slight harm to the appellee. Providence Journal Co. v. Fed-

#### No. 85-CV-393.

United States District Court, N.D. New York.

March 5, 1986.

Upon a motion to dismiss § 1983 claims arising out of a state criminal case

mission abuses its discretion by declining to by a respondent of goods known to the release the bond merely because of sales ant as well as the public interest, the Comcomplainant at the time of the agreement.

Biocraft also makes other arguments which we need not address.

#### CONCLUSION

The Commission's denials of Biocraft's posted pursuant to the Temporary Cease were an abuse of discretion. Its order is requests for return or cancellation of bonds and Desist Order issued January 10, 1990, therefore

REVERSED.



In re Mark A. VAECK, Wipa Chungjatupornchai and Lee McIntosh,

No. 91-1120.

United States Court of Appeals, Federal Circuit.

Oct. 21, 1991.

Inventor sought patent for claimed invention directed to use of genetic engineerdal proteins. The United States Patent and Trademark Office Board of Patent Appeals and Interferences affirmed an examiner's rejection of certain claims, and appeal was taken. The Court of Appeals, Rich, Circuit Judge, held that: (1) patent application was improperly rejected on ground of prima ing techniques for production of insecticition was properly rejected to extent that facie obviousness, and (2) patent applicaclaims were too general to enable person skilled in art to make and use claimed nvention without undue experimentation.

Affirmed in part, reversed in part.

Mayer, Circuit Judge, dissented and filed opinion

### 1. Patents \$314(5)

patent is sought is legal question which court independently reviews, though based lying factual findings, which court reviews Obviousness of invention for which upon Patent and Trademark Office's underunder clearly erroneous standard. U.S.C.A. § 103.

### 2. Patents ⇔16(2)

er prior art would have suggested to those In reviewing rejection of invention for patent as obvious in view of combination of prior art references, court considers whethof ordinary skill in art that they should or art would also have revealed that in so make claimed composition or device, or success; both suggestion and reasonable carry out claimed process, and whether primaking or carrying out, those of ordinary skill would have reasonable expectation of expectation of success must be found in prior art, not in applicant's disclosure. 35 U.S.C.A. § 103.

#### 3. Patents @16.25

neering techniques for production of insecticidal proteins was improperly rejected on art did not disclose or suggest expression ground of prima facie obviousness; prior insecticidally active protein, or convey to Patent application for genetic engiin cyanobacteria of chimeric gene encoding those of ordinary skill reasonable expectation of success in doing so. 35 U.S.C.A.

#### 4. Patents 699

To be patentable, specification of patent must enable any person skilled in art to which it pertains to make and use claimed invention without undue experimentation. 35 U.S.C.A. § 112.

#### 5. Patents & 99

proteins was properly rejected to extent Patent application for using genetic engineering techniques to produce insecticidal that claims were too general to enable person skilled in art to make and use claimed invention without undue experimentation;

claim referred to use of cyanobacteria in prising some 150 different genera, with general as host organism, despite fact that cyanobacteria were diverse and relatively poorly studied group of organisms, comsuccessful use of any one type in manner called for in invention being unpredictable. 35 U.S.C.A. § 112.

#### 3. Patents @99

dictable art, in order to satisfy enablement requirement for patentability, there must teach those of ordinary skill how to make quired to disclose every species encompassed by their claims, even in unprebe sufficient disclosure, either through iland how to use invention as broadly as it is Although patent applicants are not relustrative examples or terminology, claimed. 35 U.S.C.A. § 112. Ian C. McLeod, Ian C. McLeod, P.C., Okernos, Mich., argued for appellant. Teddy S. Gron, Associate Sol., Office of McKelvey, Sol. and Richard E. Schafer, Asthe Sol., of Arlington, Va., argued for appellee. With him on the brief were Fred E. sociate Sol.

Before RICH, ARCHER, and MAYER, Circuit Judges.

## RICH, Circuit Judge.

This appeal is from the September 12, Office (PTO) Board of Patent Appeals and iner's rejection of claims 1-48 and 50-52 of March 4, 1987, titled "Hybrid Genes Incorporating a DNA Fragment Containing a Interferences (Board), affirming the examapplication Serial No. 07/021,405, filed Gene Coding for an Insecticidal Protein, pressing Such Protein and Method for Use as a Biocontrol Agent" as unpatentable under 35 U.S.C. § 103, as well as the rejec-.990 decision of the Patent and Trademark Plasmids, Transformed Cyanobacteria Ex-

- cloning and expression have been described in In re O'Farrell, 853 F.2d 894, 895-99, 7 U.S.P.O.2d 1673, 1674-77 (Fed.Cir.1988), and 1. Basic vocabulary and techniques for gene are not repeated here.
- 2. All living cells can be classified into one of two broad groups, procaryotes and eucaryotes.

tion of claims 1-48 and 50-51 under 35 U.S.C. § 112, first paragraph, for lack of enablement. We reverse the § 103 rejection. The § 112 rejection is affirmed in tion of claims 1-48 and 50-51 under part and reversed in part. Cite as 947 F.2d 488 (Fed. Cir. 1991) IN RE VAECK

#### BACKGROUND

#### A. The Invention

problems, including malaria. It is known ring Bacillus genus of bacteria produce proteins ("endotoxins") that are toxic to dal Bacillus proteins over swamps. The cost method of producing the insecticidal The claimed invention is directed to the use of genetic engineering techniques 1 for production of proteins that are toxic to insects such as larvae of mosquitos and black flies. These swamp-dwelling pests are the source of numerous human health that certain species of the naturally-occurthese insects. Prior art methods of comibatting the insects involved spreading or spores were environmentally unstable, however, and would often sink to the botthus rendering this method prohibitively expensive. Hence the need for a lower-Bacillus proteins in high volume, with apspraying crystalline spores of the insecticitom of a swamp before being consumed, olication in a more stable vehicle.

As described by appellants, the claimed ing for the production of the insecticidal dom, the cyanobacteria (which in the past subject matter meets this need by provid-Bacillus proteins within host cyanobacteria. Although both cyanobacteria and bacteria are members of the procaryote 2 kinggae") are unique among procaryotes in that the cyanobacteria are capable of oxygenic photosynthesis. The cyanobacteria grow on top of swamps where they are consumed by mosquitos and black flies. Thus, when Bacillus proteins are produced withhave been referred to as "blue-green al-

such as man, other animals, piants, protozoa, algae and yeast have a distinct nucleus wherein their DNA resides. The procaryotes comprise organisms formed of cells that do not have a distinct nucleus; their DNA floats throughout the cellular cytoplasm. In contrast, the cells of eucaryotic organisms

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in transformed 3 cyanobacterial hosts according to the claimed invention, the presance of the insecticide in the food of the targeted insects advantageously guaransees direct uptake by the insects.

More particularly, the subject matter of ic (i.e., hybrid) gene comprising (1) a gene derived from a bacterium of the Bacillus live for expressing 4 the Bacillus gene in a the application on appeal includes a chimertein, united with (2) a DNA promoter effechost cyanobacterium, so as to produce the genus whose product is an insecticidal prodesired insecticidal protein.

The claims on appeal are 1-48 and 50-52, all claims remaining in the application. Claim 1 reads: 1. A chimeric gene capable of being expressed in Cyanobacteria cells compris-

pression of a DNA fragment in a Cyano-(a) a DNA fragment comprising a promoter region which is effective for exbacterium; and

having substantial sequence homology to an insecticidally active protein produced by a Bacillus strain, or coding for an the above protein or coding for a protein (b) at least one DNA fragment coding for insecticidally active truncated form of the active protein, the DNA fragments being linked so that the gene is expressed.

independent claim 33 and claims 34-48 Claims 2-15, which depend from claim 1, recite preferred Bacillus species, promotclaim 16 and claims 17-31 which depend therefrom are directed to a hybrid plasmid vector which includes the chimeric gene of claim 1. Claim 32 recites a bacterial strain. which depend therefrom recite a cyanobacers, and selectable markers.5 Independent

- have successfully taken up the foreign Bacillus con a a permanent part of the host cyanobacte-"Transformed" cyanobacteria are those that NA such that the DNA information has beria, to be replicated as new cyanobacteria are
- tion of the protein which the gene encodes; more specifically, it is the process of transferring information from a gene (which consists of "Expression" of a gene refers to the produc-

terium which expresses the chimeric gene of claim 1. Claims 50-51 recite an insecticidal composition. Claim 52 recites a particular plasmid that appellants have deposit-

# B. Appellants' Disclosure

vention in generic terms, appellants' specification discloses two particular species of Bacillus (B. thuringiensis, B. sphaericus) as sources of insecticidal protein; and nine In addition to describing the claimed ingenera of cyanobacteria (Synechocystis, Anacystis, Synechococcus, Agmenellum, Aphanocapsa, Gloecapsa, Nostoc, Anabaena and Ffremyllia) as useful hosts.

The working examples relevant to the claims on appeal detail the transformation nechocystis 6803 cells are transformed the P<sub>L</sub> promoter from the bacteriophage example, a different promoter, i.e., the Synechocystis 6803 promoter for the rubisco of a single strain of cyanobacteria, i.e., Synechocystis 6803. In one example, Sywith a plasmid comprising (1) a gene encoding a particular insecticidal protein ("B.t. 8") from Bacillus thuringiensis var. israelensis, linked to (2) a particular promoter, Lambda (a virus of E. coli). In another operon, is utilized instead of the Lambda P<sub>L</sub> promoter.

#### C. The Prior Art

A total of eleven prior art references were cited and applied, in various combinations, against the claims on appeal.

bacteria. To that end Dzelzkalns discloses The focus of Dzelzkalns,6 the primary reference cited against all of the rejected claims, is to determine whether chloroplast eric gene comprising a chloroplast promotpromoter sequences can function in cyanothe expression in cyanobacteria of a chimDNA) via messenger RNA to ribosomes where a specific protein is made.

- antibiotic-resistance conferring DNA fragments, attached to the gene being expressed, which 5. In the context of the claimed invention, "selectable markers" or "marker genes" refer to facilitate the selection of successfully transformed cyanobacteria.
- 6. 12 Nucleic Acids Res. 8917 (1984).

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er sequence fused to a gene encoding the enzyme chloramphenicol acetyl transferase (CAT).7 Importantly, Dzelzkalns teaches ferring genes for selection purposes is a gene; this use of antibiotic resistance-concommon technique in genetic engineering. the use of the CAT gene as a "marker"

ing certain Bacillus insecticidal proteins in Sekar I, 8 Sekar II, 9 and Ganesan 10 collectively disclose expression of genes encodthe bacterial hosts B. megaterium, B. subtilis and E. coli. Friedberg 11 discloses the transformation teriophage Lambda. While the cyanobacteof the cyanobacterium Anacystis nidulans R2 by a plasmid vector comprising the O<sub>L</sub>P<sub>L</sub> operator-promoter region and a temperature-sensitive repressor gene of the bacria are attractive organisms for the cloning berg states, problems may still be encountered such as suboptimal expression of the growth of overexpressed, highly hydrophobic proteins, and rapid turnover of some gene products. To address these problems, Friedberg teaches the use of the disclosed Lambda regulatory signals in plasmid vehicles which, it states, have "considerable potential for use as vectors the expression of which can be controlled in Anacysof genes involved in photosynthesis, Friedcloned gene, detrimental effects on cell

ties in vitro of DNA-dependent RNA polymerases 13 purified from two different species of cyanobacteria (Fremyella diplosiphon and Anacystis nidulans), as well Miller 12 compares the initiation specificias from E. coli.

- 7. Chloramphenicol is an antibiotic; CAT is an enzyme which destroys chloramphenicol and thus imparts resistance thereto.
- 137 Biochem. and Biophys. Res. Comm. 748
  - 9. 33 Gene 151 (1985).
- 10. 189 Mol. Gen. Gener. 181 (1983).
- 11. 203 Mol. Gen. Genet. 505 (1986).
- 12. 140 J. Bacteriology 246 (1979).
- 3. RNA polymerase, the enzyme responsible for making RNA from DNA, binds at specific nucleotide sequences (promoters) in front of genes

ports that the nucleotide sequence 14-8 site "resembles a good Escherichia coli Nierzwicki-Bauer 14 identifies in the cyanobacterium Anabaena 7120 the start site for transcription of the gene encoding rbcL, the large subunit of the enzyme ribulose-1,5-bisphosphate carboxylase. It rebase pairs preceding the transcription start promoter," but that the sequence 35 base pairs before the start site does not.

Chauvat 15 discloses host-vector systems for gene cloning in the cyanobacterium Synechocystis 6803, in which the antibiotic resistance-conferring neo gene is utilized as a selectable marker.

tain foreign DNA sequences with the neo Reiss 16 studies expression in E. coli of various proteins formed by fusion of cergene. Kolowsky 17 discloses chimeric plasmids bacterium Synechococcus R2, comprising an antibiotic-resistant gene linked to chrodesigned for transformation of the cyanomosomal DNA from the Synechococcus cyanobacterium.

duced by expression of heterologous genes lizing chemical reagents of pesticides pro-(such as those encoding Bacillus proteins) in host microbial cells such as Pseudomonas bacteria. The host cells are killed by compositions exhibit prolonged toxic activity when exposed to the environment of Barnes, United States Patent No. 4,695,-455, is directed to the treatment with stabithis treatment, but the resulting pesticidal arget pests.

is the ability of the RNA polymerase to initiate in DNA, and then moves through the gene making an RNA molecule that includes the information contained in the gene. Initiation specificity this process specifically at a site(s) on the DNA template.

- 14. 81 Proc. Natl. Acad. Sci. USA 5961 (1984).
- 204 Mol. Gen. Genet. 185 (1986)
- 16. 30 Gene 211 (1984).
- 17. 27 Gene 289 (1984).

# D. The Grounds of Rejection

# 1. The § 103 Rejections

iner contended that it would have been obvious to one of ordinary skill in the art to hosts for the expression of heterologous Dzelzkalns discloses a chimeric gene capaknowledged that the chimeric gene and transformed host of Dzelzkalns differ from the claimed invention in that the former's structural gene encodes CAT rather than lus, and the advantages of expressing such genes in heterologous 18 hosts to obtain larger quantities of the protein. The examsubstitute the Bacillus genes taught by gene in the vectors of Dzelzkalns in order lus genes in the transformed cyanobacteit would have been obvious to use cyanobacteria as heterologous hosts for expresgenes. In the absence of evidence to the Claims 1-6, 16-21, 33-38, 47-48 and 52 application) were rejected as unpatentable under 35 U.S.C. § 103 based upon Dzelzkalns in view of Sekar I or Sekar II ble of being highly expressed in a cyanobacterium, said gene comprising a promoter region effective for expression in a cyainsecticidally active protein. However, the examiner pointed out, Sekar II, and Ganesan teach genes encoding insecticidally active proteins produced by Bacil-Sekar I, Sekar II, and Ganesan for the CAT to obtain high level expression of the Bacilria. The examiner further contended that sion of the claimed genes due to the ability which include all independent claims in the nobacterium operably linked to a structural gene encoding CAT. The examiner acof cyanobacteria to serve as transformed and Ganesan. The examiner stated that

# 18. Denotes different species or organism.

19. MPEP 706.03(n), "Correspondence of Claim and Disclosure," provides in part:

In chemical cases, a claim may be so broad as to not be supported by [the] disclosure, in which case it is rejected as unwarranted by the disclosure.... MPEP 706.03(2), "Undue Breadth," provides

closure of a single species usually does not provide an adequate basis to support generic claims. In re Sol, 1938 C.D. 723, 497 O.G. [1]n applications directed to inventions in arts where the results are unpredictable, the dis-

contrary, the examiner contended, the invention as a whole was prima facie obvious. Additional rejections were entered against various groups of dependent claims which we need not address here. All additional rejections were made in view of Dzelzkalns in combination with Sekar I, Sekar II, and Ganesan, and further in view of other references discussed in Part C above.

as its opinion while adding a few comments. The legal conclusion of obviousthe Board added, but only a reasonable expectation of success, citing In re O'Far-Cir.1988). In view of the disclosures of the prior art, the Board concluded, one of ordinary skill in the art would have been moticess to make the substitution suggested by The Board affirmed the § 103 rejections, basically adopting the examiner's Answer rell, 853 F.2d 894, 7 U.S.P.Q.2d 1673 (Fed. vated by a reasonable expectation of sucness does not require absolute certainty, the examiner.

## 2. The § 112 Rejection

The examiner also rejected claims 1-48 and 50-51 under 35 U.S.C. § 112, first paragraph, on the ground that the disclosure was enabling only for claims limited in Citing Manual of Patent Examining Procedure (MPEP) provisions 706.03(n) 19 and (z) 20 as support, the examiner took the position that undue experimentation would be required of the art worker to practice the claimed invention, in view of the unpredictability in the art, the breadth of the claims, the limited number of working examples and the limited guidance provided accordance with the specification as filed.

species, what other species will work. In re Dreshfield, 1940 C.D. 351; 518 O.G. 255 gives this general rule: "It is well settled that in 546. This is because in arts such as chemistry it is not obvious from the disclosure of one cases involving chemicals and chemical compounds, which differ radically in their properties it must appear in an applicant's specification either by the enumeration of a sufficient number of the members of a group or by other appropriate language, that the chemicals or chemical combinations included in the claims are capable of accomplishing the deired result."

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in the specification. With respect to un- a reasonable expectation of success. predictability, the examiner stated that

[t]he cyanobacteria comprise a large teria including large numbers of species in some 150 different genera including etc. The molecular biology of these organisms has only recently become the work is limited to a few genera. Thereand diverse group of photosynthetic bac-Synechocystis, Anacystis, Synechococsubject of intensive investigation and this fore the level of unpredictability regardlarge, diverse and relatively poorly studcus, Agmenellum, Nostoc, Anabaena, ing heterologous gene expression in this ied group of procaryotes is high....

The Board affirmed, noting that "the limted guidance in the specification, considered in light of the relatively high degree of unpredictability in this particular art, would not have enabled one having ordinary skill in the art to practice the broad scope of the claimed invention with-427 F.2d 833, 166 U.S.P.Q. 18 (CCPA out undue experimentation. In re Fisher,

#### OPINION

#### Obviousness

prima facie obvious within the meaning of [1] We first address whether the PTO erred in rejecting the claims on appeal as 35 U.S.C. § 103. Obviousness is a legal question which this court independently reviews, though based upon underlying factual findings which we review under the clearly erroneous standard. In re Woodruff, 919 F.2d 1575, 1577, 16 U.S.P.Q.2d 1934, 1935 (Fed.Cir.1990).

the prior art would have suggested to and (2) whether the prior art would also have revealed that in so making or carryng out, those of ordinary skill would have [2] Where claimed subject matter has nation of prior art references, a proper analysis under § 103 requires, inter alia, consideration of two factors: (1) whether those of ordinary skill in the art that they should make the claimed composition or device, or carry out the claimed process; been rejected as obvious in view of a combi-

Both the suggestion and the reasonable In re Dow Chemical Co., 837 F.2d 469, 473, 5 U.S.P.Q.2d 1529, 1531 (Fed.Cir.1988). expectation of success must be founded in the prior art, not in the applicant's disclosure. Id.

PTO has not established the prima facie The prior art simply does not disclose or nary skill a reasonable expectation of success in doing so. More particularly, there is no suggestion in Dzelzkalns, the primary ceins for the CAT gene utilized for selec-[3] We agree with appellants that the obviousness of the claimed subject matter. suggest the expression in cyanobacteria of a chimeric gene encoding an insecticidally active protein, or convey to those of ordireference cited against all claims, of substituting in the disclosed plasmid a structural gene encoding Bacillus insecticidal protion purposes. The expression of antibiotic resistance-conferring genes in cyanobacteria, without more, does not render obvious the expression of unrelated genes in cyanobacteria for unrelated purposes.

The PTO argues that the substitution of insecticidal Bacillus genes for CAT marker genes in cyanobacteria is suggested by the secondary references Sekar I, Sekar II, and Ganesan, which collectively disclose expresproteins in two species of host Bacillus as well as in the bacterium E. coli. While these references disclose expression of Bacillus genes encoding insecticidal proteins in certain transformed bacterial hosts, nowhere do these references disclose or sugsion of genes encoding Bacillus insecticidal bacteria (B. megaterium and B. subtilis) gest expression of such genes in transformed cyanobacterial hosts.

procaryotic organisms, and argues that this skill the use of cyanobacteria as hosts for phasizes similarity between bacteria and cyanobacteria, namely, that these are both expression of the claimed chimeric genes. While it is true that bacteria and cyanobacteria are now both classified as procaryotes, that fact alone is not sufficient to To remedy this deficiency, the PTO emfact would suggest to those of ordinary motivate the art worker as the PTO con-

As the PTO concedes, cyanobacteria and bacteria are not identical; they are classified as two separate divisions of the kingdom Procaryotae.21 Moreover, it is only in recent years that the biology of denced by references in the prior art to "blue-green algae." Such evidence of recent uncertainty regarding the biology of cyanobacteria tends to rebut, rather than support, the PTO's position that one would consider the cyanobacteria effectively incyanobacteria has been clarified, as eviterchangeable with bacteria as hosts for expression of the claimed gene.

At oral argument the PTO referred to berg, Miller, and Nierzwicki-Bauer), which quence homology between bacteria and homology is a further suggestion to one of We disagree. As with the Dzelzkalns, Sekar I, Sekar II, and Ganesan references discussed above, none of these that evanobacteria could serve as hosts for expression of genes encoding Bacillus interia as they do about similarities. For example, Nierzwicki-Bauer reports that a consensus sequence) in a particular cyanoquence (the -35 region) does not. While Miller speaks of certain promoters of the bacteriophage Lambda that are recognized polymerases, it also discloses that these promoters exhibited differing strengths suggesting differences in the structures of it contended disclose certain amino acid secyanobacteria. The PTO argued that such ordinary skill to attempt the claimed invenadditional references disclose or suggest secticidal proteins. In fact, these additionferences between cyanobacteria and baccertain nucleotide sequence (i.e., the -10 but that another nearby nucleotide seby both cyanobacterial and E. coli RNA when exposed to the different polymerases. Differing sensitivities of the respective polymerases to an inhibitor are also disclosed, additional secondary references, not cited against any independent claim (i.e., Friedal references suggest as much about dif bacterium resembles an E. coli promoter, the initiation complexes.

1982) (definition of "Procaryotae"). Procaryotic organisms are commonly classified according to the following taxonomic hierarchy: Kingdom; Stedman's Medical Dictionary 1139 (24th ed.

ogous genes. Again, we can not. The bacteria unique among procaryotes). Howart would lead those of ordinary skill to ever, these references do not suggest that cyanobacteria would be equally attractive The PTO asks us to agree that the prior conclude that cyanobacteria are attractive hosts for expression of any and all heterorelevant prior art does indicate that cyanobacteria are attractive hosts for expression of both native and heterologous genes involved in photosynthesis (not surprisingly, for the capability of undergoing oxygenic photosynthesis is what makes the cyanohosts for expression of unrelated heterologous genes, such as the claimed genes encoding Bacillus insecticidal proteins.

producing a "predetermined protein in a stable form" in a transformed bacterial ference between the prior art and the claim while the claimed invention substituted a In O'Farrell, this court affirmed an obvi-853 F.2d at 895, 7 U.S.P.Q.2d at art publication (the Polisky reference) at issue was that in Polisky, the heterologous gene was a gene for ribosomal RNA, gene coding for a predetermined protein. as the appellants therein pointed out, the ribosomal RNA gene is not normally translated into protein, Polisky mentioned pregene coding for a protein were to be substiousness rejection of a claim to a method for 1674. The cited references included a prior whose three authors included two of the three coinventor-appellants. The main dif-Id. at 901, 7 U.S.P.Q.2d at 1679. Although, iminary evidence that the transcript of the ribosomal RNA gene was translated into protein, and further predicted that if a tuted, extensive translation might result. Id. We thus affirmed, explaining that host.

the prior art explicitly suggested the subgesting that the [claimed] method could stitution that is the difference between the claimed invention and the prior art, and presented preliminary evidence sugbe used to make proteins.

cies. 3 Bergey's Manual of Systematic Bacteriol-Division; Class; Order; Family; Genus; Speogy 1601 (1989).

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.. Polisky contained detailed enabling tion, and evidence suggesting that it methodology for practicing the claimed invention, a suggestion to modify the prior art to practice the claimed invenwould be successful.

Id. at 901-02, 7 U.S.P.Q.2d at 1679-80.

stitution that is the difference between the claimed invention and the prior art. Moreover, the "reasonable expectation of success" that was present in O'Farrell is not In contrast with the situation in O'Farrell, the prior art in this case offers no suggestion, explicit or implicit, of the subpresent here. Accordingly, we reverse the § 103 rejections.

#### B. Enablement

1400, 1404 (Fed.Cir.1988). That some exindependently review, although based upon view for clear error. See id. at 735, 8 [4] The first paragraph of 35 U.S.C. § 112 requires, inter alia, that the specification of a patent enable any person skilled in the art to which it pertains to make and use the claimed invention. Although the statute does not say so, enablement requires that the specification teach those in the art to make and use the invention with-Wands, 858 F.2d 731, 737, 8 U.S.P.Q.2d perimentation may be required is not fatal; the issue is whether the amount of experi-37, 8 U.S.P.Q.2d at 1404. Enablement, like obviousness, is a question of law which we underlying factual findings which we rementation required is "undue." Id. at 736out "undue experimentation." U.S.P.Q.2d at 1402.

oneering," and that this should entitle them would provide no real protection, appellants [5] In response to the § 112 rejection, appellants assert that their invention is "pito claims of broad scope. Narrower claims argue, because the level of skill in this art is so high, art workers could easily avoid the claims. Given the disclosure in their

based upon a post-filing date state of the art, as in *In re Hogan*, 559 F.2d 595, 605-07, 194 U.S.P.O. 527, 536-38 (CCPA 1977). See also United States Steel Corp. v. Phillips Petroleum Co., 865 F.2d 1247, 1251, 9 U.S.P.O.2d 1461, 1464 (Fed.Cir.1989) (citing *Hogan*); Hormone 22. The enablement rejection in this case was not

bacteria, using a variety of promoters and Bacillus DNA, and could easily determine whether or not the active Bacillus protein skilled microbiologist could construct vecspecification, appellants contend that any tors and transform many different cyanowas successfully expressed by the cyanobacteria.

With the exception of claims 47 and 48, the bacteria. The PTO's position is that the cyanobacteria are a diverse and relatively heterologous gene expression in cyanohave not effectively disputed these assertions. Moreover, we note that only one particular species of cyanobacteria is employed in the working examples of appel-The PTO made no finding on whether the claimed invention is indeed "pioneering," and we need not address the issue here. claims rejected under § 112 are not limited poorly studied group of organisms, comprising some 150 different genera, and that Appellants lants' specification, and only nine genera of cyanobacteria are mentioned in the entire to any particular genus or species of cyanobacteria is "unpredictable." document.

plete understanding of the biology of cyanobacteria as of appellants' filing date, as well as the limited disclosure by appellants pellants' specification and the broad scope 839, 166 U.S.P.Q. 18, 24 (CCPA 1970) (the first paragraph of § 112 requires that the Taking into account the relatively incomof particular cyanobacterial genera operative in the claimed invention, we are not persuaded that the PTO erred in rejecting claims 1-46 and 50-51 under § 112, first paragraph. There is no reasonable correlaof protection sought in the claims encompassing gene expression in any and all cyascope of the claims must bear a reasonable correlation to the scope of enablement protion between the narrow disclosure in apvided by the specification).22 Accordingly, nobacteria. See In re Fisher, 427 F.2d 833,

Research Found, Inc. v. Genentech, Inc., 904 F.2d 1558, 1568-69, 15 U.S.P.Q.2d 1039, 1047-48 (Fed.Cir.1990) (directing district court, on remand, to consider effect of Hogan and United States Steel on the enablement analysis of Fisher), cert. dismissed, — U.S. —, 111 S.Ct. 1434, 113 L.Ed.2d 485 (1991). We therefore do not

we affirm the § 112 rejection as to those

[6] In so doing we do not imply that nominated as "unpredictable" must never be allowed generic claims encompassing in their specification. It is well settled that claims, even in an unpredictable art. In re Angstadt, 537 F.2d 498, 502-03, 190 there must be sufficient disclosure, either gy,23 to teach those of ordinary skill how to patent applicants in art areas currently declose every species encompassed by their U.S.P.Q. 214, 218 (CCPA 1976). However, make and how to use the invention as those encompassed by the claimed genus possess the disclosed utility. Where, as more than the particular species disclosed patent applicants are not required to disthrough illustrative examples or terminolobroadly as it is claimed. This means that the disclosure must adequately guide the art worker to determine, without undue experimentation, which species among all here, a claimed genus represents a diverse and relatively poorly understood group of the disclosure of an invention involving a recited in claims 1-46 and 50-51 without microorganisms, the required level of disclosure will be greater than, for example, or electrical element. See Fisher, 427 F.2d at 839, 166 U.S.P.Q. at 24. In this case, we agree with the PTO that appellants' limited disclosure does not enable one of ordinary skill to make and use the invention as now "predictable" factor such as a mechanical undue experimentation.

Remaining dependent claim 47 recites a terium is selected from among the genera which depends from claim 47, is limited to The PTO did not separately address these claims, nor indicate why they should be treated in the same manner as the claims cyanobacterium which expresses the chimeric gene of claim 1, wherein the cyanobacthe cyanobacterium Synechocystis 6803. Anacystis and Synechocystis. Claim 48, encompassing all types of cyanobacteria.

consider the effect of Hogan and its progeny on allowed to "dominate the future patentable inventions of others." Fisher, 427 F.2d at 839, 166 Fisher's analysis of when an inventor should be

Although these claims are not limited to Bacillus proteins, we note what appears to art of the numerous Bacillus proteins havexpression of genes encoding particular be an extensive understanding in the prior ing toxicity to various insects. The rejection of claims 47-48 under § 112 will not be sustained.

#### CONCLUSION

The rejection of claims 1-48 and 50-52 under 35 U.S.C. § 103 is reversed. The rejection of claims 1-46 and 50-51 under 35 U.S.C. § 112, first paragraph, is affirmed and the rejection of claims 47 and 48 thereunder is reversed. AFFIRMED-IN-PART, REVERSED-IN-PART.

# MAYER, Circuit Judge, dissenting.

An appeal is not a second opportunity to rry a case or prosecute a patent application, take to retry the entire case on appeal." Cir.1986). But that is precisely what the and we should not allow parties to "under-Perini America, Inc. v. Paper Converting U.S.P.Q.2d 1621, 1624 (Fed.Cir.1987); Eaton Corp. v. Appliance Valves Corp., 790 F.2d 874, 877, 229 U.S.P.Q. 668, 671 (Fed. court has permitted here. The PTO conducted a thorough examination of the prior art surrounding this patent application and ous. The board's decision based on the conclusion that the claims would have been Machine Co., 832 F.2d 581, 584, 4 concluded the claims would have been obviexaminer's answer which comprehensively explains the rejection is persuasive and shows how the evidence supports the legal obvious. Yet, the court ignores all this and exist. Even if I thought this opinion were conducts its own examination, if you will, as though the examiner and board did not more persuasive than the board's, I could

23. The first paragraph of § 112 requires nothing more than objective enablement. In re Marzocmore than objective enablement. In re Marzoc-chi, 439 F.2d 220, 223, 169 U.S.P.O. 367, 369 (CCPA 1971). How such a teaching is set forth, either by the use of illustrative examples or by broad terminology, is irrelevant. Id.

# LEVERNIER CONST., INC. v. U.S. Cite as 947 F.2d 497 (Fed. Cir. 1991)

not join it because it misperceives the role

Anderson v. City of Bessemer City, 470 U.S. 564, 574, 105 S.Ct. 1504, 1511-12, 84 record we are bound by the PTO's interpreclearly erroneous and its conclusion is L.Ed.2d 518 (1985). The mere denomdoes not give the court license to decide the Cir.1990). There may be more than one way to look at the prior art, but on this tation of the evidence because it is not the similarity between the prior art and the claims, the level of ordinary skill in the art, and what the prior art teaches are all ques-383 U.S. 1, 17, 86 S.Ct. 684, 693-94, 15 Jurgens v. McKasy, 927 F.2d 1552, 1560, 18 U.S.P.Q.2d 1031, 1037 (Fed.Cir.1991). And "[w]here there are two permissible views of the evidence, the factfinder's choice between them cannot be clearly erroneous." ination of obviousness as a question of law factual matters afresh and ignore the requirement that they be respected unless clearly erroneous. In re Woodruff, 919 F.2d 1575, 1577, 16 U.S.P.Q.2d 1934, 1935 (Fed.Cir.1990); In re Kulling, 897 F.2d 1147, 1149, 14 U.S.P.Q.2d 1056, 1057 (Fed. unassailable. I would affirm on that basis. The scope and content of the prior art, L.Ed.2d 545, 148 U.S.P.Q. 459, 467 (1966); tions of fact. Graham v. John Deere Co.,



#### LEVERNIER CONSTRUCTION, INC., Plaintiff-Appellee,

The UNITED STATES, Defendant-No. 91-5058. Appellant.

United States Court of Appeals, Federal Circuit.

Oct. 22, 1991.

ney fees and expenses under the Equal Construction contractor sought attor-

error to apply 18% (COLA) to hourly rates ment claim before contracting officer was living adjustment (COLA) to paralegal fees awarded under the EAJA; and (3) it was Claims Court, 22 Cl.Ct. 247, granted the motion, and held that contractor was entipeals, Bennett, Senior Circuit Judge, held that: (1) prosecution of equitable adjustnot a "civil action" within meaning of the EAJA, and thus contractor was not entitled of attorneys whose time was claimed at \$75 nald W. Gibson, J., 21 Cl.Ct. 683, granted application in part and denied it in part. led to recover additional amount repre-Government appealed. The Court of Apto recover consultant fees incurred in preparation of equitable adjustment claim; (2) Claims Court erred in applying 18% cost of Access to Justice Act (EAJA) after settlement of equitable adjustment claim. On original hearing, the Claims Court, Regisenting consultant fees and expenses. Contractor sought reconsideration.

#### Reversed.

# 1. United States €147(12)

Access to Justice Act (EAJA), and thus contractor was not entitled to recover fees incurred by contract claim consultant for claim before contracting officer was not preparation of equitable adjustment claim. Prosecution of equitable adjustment "civil action" within meaning of the Equal 28 U.S.C.A. § 2412.

for other judicial constructions and See publication Words and Phrases definitions.

# 2. United States \$\infty\$147(5)

Equal Access to Justice Act (EAJA) is a waiver of sovereign immunity which must be strictly construed. 28 U.S.C.A.

# 3. United States @147(4)

fees under the Equal Access to Justice Act governing rate of attorney fees upward to In formulating an award of attorney (EAJA), court may adjust statutory cap account for an increase in cost of living. 28 U.S.C.A. § 2412(d)(2)(A)(ii).

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